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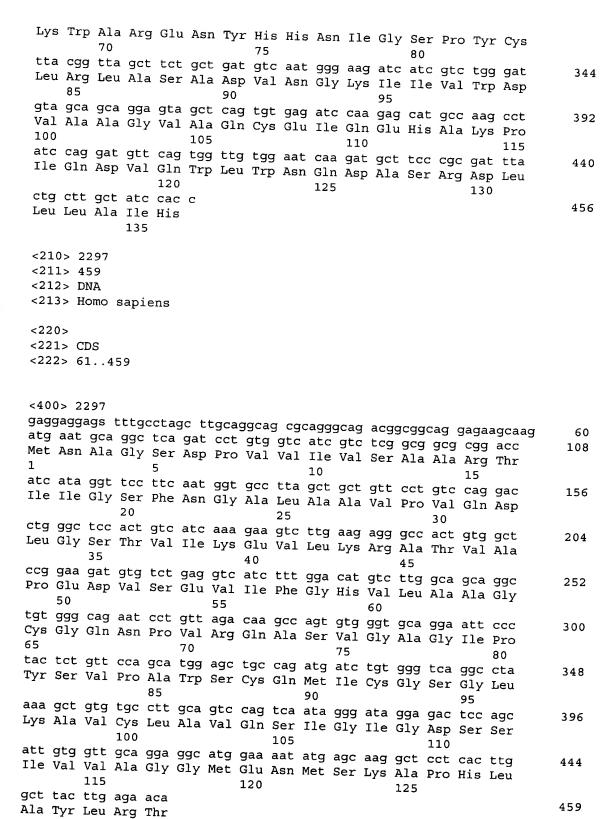


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	Glu					T U						4 E								
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					J						ה ה									
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Gly	gaa Glu	Phe	Le	y at u In	aa C Vs T	.eu	gac Aer	aga ^~~	ga	a a	ga	gcc	aa	g a	ac .	aaa	at	t g	jca	393
-					,	u	ush	ur 9	GT.	u A	rg .	ита	Ŀу	s A	sn 1	Lys	17	e A	(la	

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			cug	・ししし	чч ч	Latu	LCEE	r ar	racc	anta	+~~	~~~~				180
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Pro His Leu Lys Leu Gly Leu Met Asn Phe Ala Asp Glu Phe Ala Lys	299
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105

75

90

347

443

85

100

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357

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Pne	Tyr	Thr	Arg	Asn	Leu	Tyr	Met	Arg	Ile	Arg	Asp	Asn				
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ggag	ggga	CC C	ggtt	cccg	g gt	gagt	gtcc	agg	c ato	7 CC	a acc	יבים ב	- u y	3 00	cgaga cgcg	120
							-		Me	t Pro	o Ala	ייים כ פרום ב	9 ! 1 Ar	שם ב	o Ala	175
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ggc (agc (ggc g	ggc 1	tcg q	gag (gct (cca ç	gca a	atg d	gtt d	gaa d	caa d	ita 1	מפר :	act	223
Gly :	Ser (Gly (Gly S	Ser (Glu A	Ala 1	Pro i	Ala M	Met V	Jal (Glu (3ln T	Len 1	lsp '	700 Thr	443
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aat	a+a	10					15					20				
Ala	Val 25	Ile	Thr	Pro	g gcc Ala	atg Met 30	Lei	a gaa ı Glı	a gag ı Glı	g gaa ı Glu	ı gaa ı Glü 35	cag Gln	Leu Leu	gaa u Glu	a gct 1 Ala	27
gct	gga	cta	gag	aga	gag	caa	aag	ato	cto	r qaa	9 2 2	ı act	cac	: ato	g tct	210
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AIG	nis	arg 30	ctt Leu	vai	Ser	Pro	Ser 35	Pro	Ala	Met	Ala	Glu 40	Asp	Leu	Ser	149
ліа	gcc Ala 45	acg Thr	tcc Ser	tac Tyr	acc Thr	gaa Glu 50	gat Asp	gat Asp	ttc Phe	tac Tyr	tgc Cys 55	כככ	gtc Val	tgt Cys	cag Gln	197
60	val	ыeu	aaa Lys	Inr	Pro 65	vaı .	Arg	Thr	Thr	Ala 70	tgt Cys	Gln	His	Val	Asn 75	245
ary .	oer ,	GIU		ser 80	Tnr	ser .	Asp	Asn	Thr 85	gaa Glu	act Thr	tac Tyr	Gln	gag Glu 90	22+	293
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OIU	vai	30	tgc Cys	ser	шe	Hls	Phe	Leu	Asp	Gly	Val	. Val	cag Gln	Thr	Phe	207
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p	Cly	Бец		15	Leu	ьeu	GIU	Thr	GIY 20	Ala	Ser	Val	Asn	Ala	ccc Pro	161
110	usħ	PIO	tgc Cys : 30	ьys	GIN	ser	Pro	Val 35	His	Leu .	Ala	Ala	gga Gly	agc Ser	Gly	209
ctt (Leu /	мла	tgc Cys 45	ttt (Phe 1	ctt (Leu)	ctc Leu	Trp	cag Gln 50	ctg Leu	caa Gln	acg (ggc Gly	gct Ala 55	~~~	ctc Leu	aac Asn	257

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							بر 1	let A	ııa <i>ı</i>	lla A	ıla (37А (3ln I	Pro (Gln	
gca Ala	sgc Xaa 10	gcc Ala	tgg Trp	cgg Arg	agc Ser	acg Thr 15	gtg	gac	gag Glu	ttc Phe	cta Leu 20	gct Ala	tcg Ser	ggc Gly	ttt Phe	100
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110	NIG	261	10	ser	GIY	Pne	va1	. Ala 15	ı Ile	a aag E Lys	g aag E Lys	5 Lys	Glr 20	g caa	a gat n Asp	224
val	val	25	Pne	ьeu	Glu	Ala	Asn 30	Lys	: Ile	e Glu	ı Phe	Gli 35	g gag u Glu	\Va]	g gat L Asp	272
atc Ile	aca Thr 40	atg Met	tca Ser	gaa Glu	gaa Glu	cag Gln 45	agg Arg	caa Gln	ı tgg ı Trp	atg Met	tac Tyr 50	aaa Lys	aac Asn	gto Val	. c	318
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cgcc		<i>j</i> cc (-yaca	אב בנ	CCCE	geti	t ct	atacı	tctc	ttc	ccca	aam 🦸	Sacc	ccadca	120
	мес 1	лаа	Ата	гàг	Ala 5	Phe	Arg	Val	Lys	Ser	Xaa	Thr	gcc Ala	Ile	Lys	168
Gry	261	Asp	Arg	20	гÀг	ьеи	Arg	Ala	Asp 25	Val	Thr	Thr	gct Ala	Phe	Pro	216
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Ctc ttt cct cac ctg cgg gag gag atc ctc agc ggc gcc ttg cgg agg 270 Leu Phe Pro His Leu Arg Glu Glu Fle Leu Ser Gly Ala Leu Arg Arg Arg 25 Gac ccc agt aaa tca aca gac tgg gaa gat gat ggt tgg gga gca tgg 318 Asp Pro Ser Lys Ser Thr Asp Trp Glu Asp Asp Gly Trp Gly Ala Trp 45 Gaa gaa aat gaa cca caa gaa cct gaa gaa gaa ga gag aga gga at act tgc aaa 366 Glu Glu Asn Glu Pro Gln Glu Pro Glu Glu Glu Glu Gly Asn Thr Cys Lys 55 aca caa aaa act tcc tgg ctc caa gat tgt gtt tta tcc tta tct cca 414 Thr Gln Lys Thr Ser Trp Leu Gln Asp Cys Val Leu Ser Leu Ser Pro 70 acc aat gat ctt atg gtg ata gct cg Thr Asn Asp Leu Met Val Ile Ala 85	The var Gin Phe Cys Tyr Phe Gin Asp Leu Gin Ala Ala	Arg Asp Phe
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gac ccc agt aaa tca gac tgg gaa gat ggt tgg gga gca tgg 318 Asp Pro Ser Lys Ser Thr Asp Trp Glu Asp Gly Trp Gly Ala Trp Trp 40 45 50 50 368 366 367	25 30	2 =
## Ser In Asp Trp Glu Asp Asp Gly Trp Gly Ala Trp 50 gaa gaa aat gaa cca caa gaa cct gaa gaa gaa gaa gaa at act tgc aaa 366 Glu Glu Asn Glu Pro Gln Glu Pro Glu Glu Glu Glu Gly Asn Thr Cys Lys 65 aca caa aaa act tcc tgg ctc caa gat tgt gtt tta tcc tta tct cca 414 Thr Gln Lys Thr Ser Trp Leu Gln Asp Cys Val Leu Ser Leu Ser Pro 70 acc aat gat ctt atg gtg ata gct cg Thr Asn Asp Leu Met Val Ile Ala 90 <pre> </pre> <pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> <p< td=""><td>gac ccc agt aaa tca aca gac tgg gaa gat gat ggt tgc</td><td></td></p<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	gac ccc agt aaa tca aca gac tgg gaa gat gat ggt tgc	
Gas gas ast gas ccs cas gas gas gas gas ggs ast act tgc ass 366 Glu Glu Asn Glu Pro Gln Glu Pro Glu Glu Glu Glu Gly Asn Thr Cys Lys 65 65 aca cas as act tcc tgg ctc cas gat tgt gtt tta tcc tta tct cca 414 Thr Gln Lys Thr Ser Trp Leu Gln Asp Cys Val Leu Ser Leu Ser Pro 70 75 80 80 acc ast gat ctt atg gtg ats gct cg Thr Asn Asp Leu Met Val Ile Ala 85 90 440 \$\) <pre> </pre> <pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	ASP FIG Set Lys Ser Thr Asp Trp Glu Asp Asp Gly Trp	Gly Ala Trp
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aca caa aaa act tcc tgg ctc caa gat tgt gtt tta tcc tta tct cca 414 Thr Gln Lys Thr Ser Trp Leu Gln Asp Cys Val Leu Ser Leu Ser Pro 70 acc aat gat ctt atg gtg ata gct cg Thr Asn Asp Leu Met Val Ile Ala 85 <pre> </pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre< td=""><td>Glu Glu Asn Glu Pro Glu Glu Pro Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu</td><td>act tgc aaa 366</td></pre<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	Glu Glu Asn Glu Pro Glu Glu Pro Glu	act tgc aaa 366
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gta tta tta aac aca tgc tta tat gta cct tat ggg tat ttg tca ctt Val Leu Leu Asn Thr Cys Leu Tyr Val Pro Tyr Gly Tyr Leu Ser Leu	158
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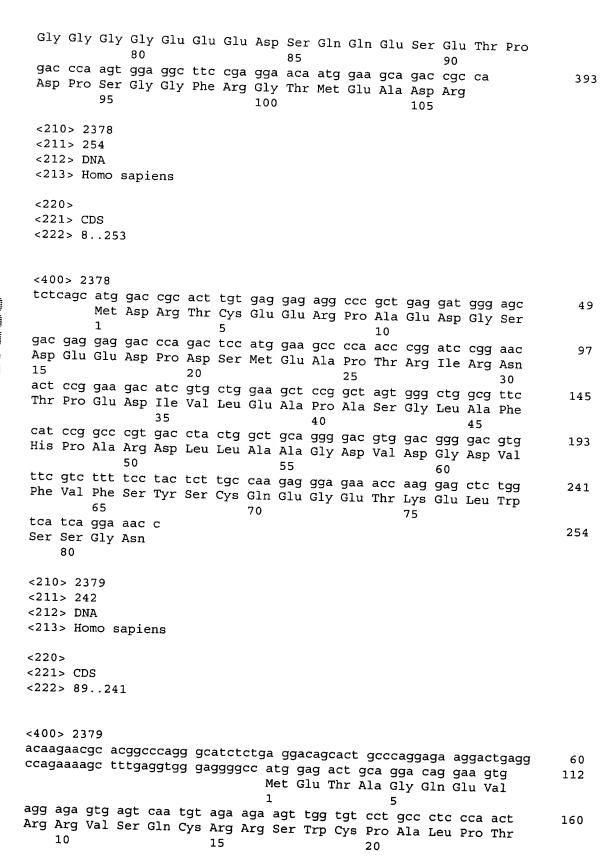
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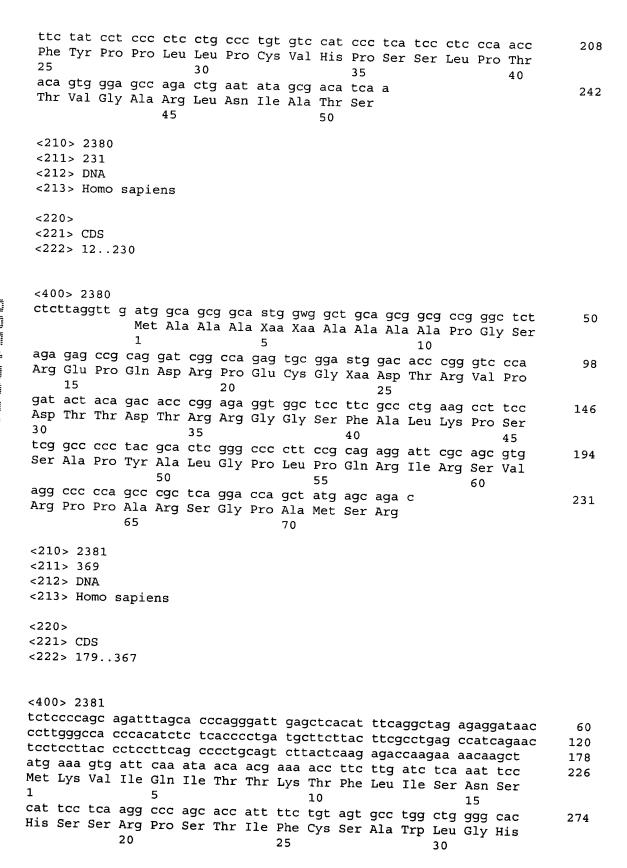
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Ala Leu Asp Glu Tyr Pro Ala Glu Asp Phe Thr 80 85	9.0
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tagaagatgc atagaagccct of the stage of the s	Met A 1 cac ca His H: ccc ga	gca ago Ala Ser at gtc is Val cc cca la Pro 35	agc Ser 20 gcc Ala	gac Asp 5 cag Gln tcc Ser	gct Ala caa Gln	gcc Ala ggt Gly att	aat Asn cag Gln gct Ala	gaa Glu 25 Gly	a acc Thr 10 ctc Leu att Ile	c tgo cta cta Leu aca Thr	aag Lys acc Thr ggt Gly	g atg Met tca Ser gtg Val	110
tagaagatgc atagaagccct control of the tagaagccct control of taga gag cct taga gat ctg ser Asp Leu 30 aac cac cac Asn His His	Met 1 cac ca His H: ccc ga Pro Al gcc cg Ala An	gca ago Ala Ser at gtc is Val cc cca la Pro 35 gg cca cg Pro	agc Ser 20 gcc Ala gtc: Val	gac Asp 5 cag Gln tcc Ser ttc	gct Ala caa Gln aaa Lys	gcc Ala ggt Gly att Ile tat Tyr	aat Asn cag Gln gct Ala 40 ttt Phe	aaa Lys gaa Glu 25 ggg Gly tac Tyr	a acc Thr 10 ctc Leu att Ile ttg Leu	cta cta Leu aca Thr caa Gln	aag Lys acc Thr ggt Gly gac Asp	tca Ser gtg Val 45 gat Asp	110 158
tgg ggg cct Trp Gly Pro 15 agt gat ctg Ser Asp Leu 30 aac cac cac Asn His His gga cac att Gly His Ile	Met I cac ca His H: ccc ga Pro AI gcc ca Ala Ai 50 ccc ct Pro Le	gca ago Ala Ser at gtc is Val cc cca la Pro 35 gg cca cg Pro it ggg eu Gly	agc Ser 20 gcc Ala gtc: Val:	gac Asp 5 cag Gln tcc Ser ttc Phe	gct Ala caa Gln aaa Lys gta Val	gcc Ala ggt Gly att Ile tat Tyr 55 act	aat Asn cag Gln gct Ala 40 ttt Phe	aaa Lys gaa Glu 25 ggg Gly tac Tyr acg	acc Thr 10 ctc Leu att Ile ttg Leu cac	cta Cys cta Leu aca Thr caa Gln cac	aag Lys acc Thr ggt Gly gac Asp	g atg Met tca Ser gtg Val 45 gat Asp	110 158 206
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-yr mar	50	Arg IIe Ly	s Asp Gly G 55	gt gtt att gac ly Val Ile Asp	Ser Val
Lys III 1.	65	GIY ASP HIS	S Ile Glu S 70	cc ata aat gga er Ile Asn Gly 75	Glu Asn
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Sec tca gcc tcc caa gta gct ggg att aca ggc atc tgc cac cat gcc Ala Ser Ala Ser Gln Val Ala Gly Ile Thr Gly Ile Cys His His Ala 30	15 20	25
Ala Ser Ala Ser Gin Val Ala Giy Ile Thr Gly Ile Cys His His Ala 30 35 40 40 45 63 64 61 61 61 61 61 61 62 63 64 64 65 65 65 65 65 65 65 65 65 65 65 65 65	gcc tca gcc tcc caa gta gct ggg	att aca ggc atc tgc cac cat ggg
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So	30 35	40
So	Cly Iou The Physical Cly Iou	gag atg ggg twt cac tgt gtt ggc 193
Cag ggt ggt ctc aaa ctc ctt acc ta ggt ggt ac gct tgg cct tgg cct caa agt gct ggc sta cag ggt ggt acg cct ggc ctg ggc ctc caa agt gct ggc att aca ggt gt sec caa agt gct gcg att aca ggt gt sec caa agt gct gcg att aca ggt gt sec caa agt gct gcg att aca ggt gt sec caa agt gct gcg att aca ggt gt sec caa agt gct gcg att aca ggt gt sec caa agt gct gcg att aca ggt gt sec caa agt gct gcg att aca ggt gt sec caa agt gct gcg att aca ggt gt sec caa agt gct gcg acc cgg ggc ctc tgt cct sec cat sec cat gcd sec cgg ggc ctc tgt cct sec cat sec cat gcd sec cgg ggc ctc tgt cct sec cat sec cat gcg gcc cac gcg ggc ctc tgt cct sec cat sec cat gcg ggc ctc tgt cct sec cac gcd gcg gcc cac gcg ggc ctc tgt cct sec cac gcd gcd gcd gcd gcg gcd gcd gcd gcd gc	orn ned the rife val phe ned val	Glu Met Gly Xaa His Cys Val Gly
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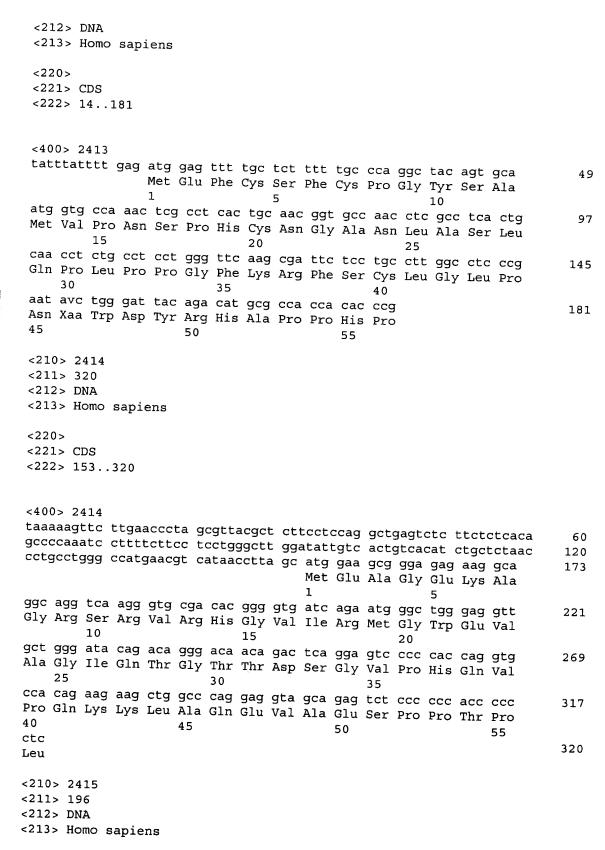
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25 30 35 The Lys Val Tyr Arg Lys His His Thr Leu Cys Leu Arg	
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1 5 Leu Lys Lys His Leu Ser Gln	225
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01.	, 110	30	4 II)	J ASI	1 Alc	ı mei	AS]	o Tri) Asr	ı Gl	v Val	l Gl	y Tr	aA c	t gga n Gly	149
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His	mry FI	16 06	al <i>I</i>	Ala	Asp	Ser	Lys	Asp	Lys	Glu	Pro	Glu	Val	Val	Phe	207
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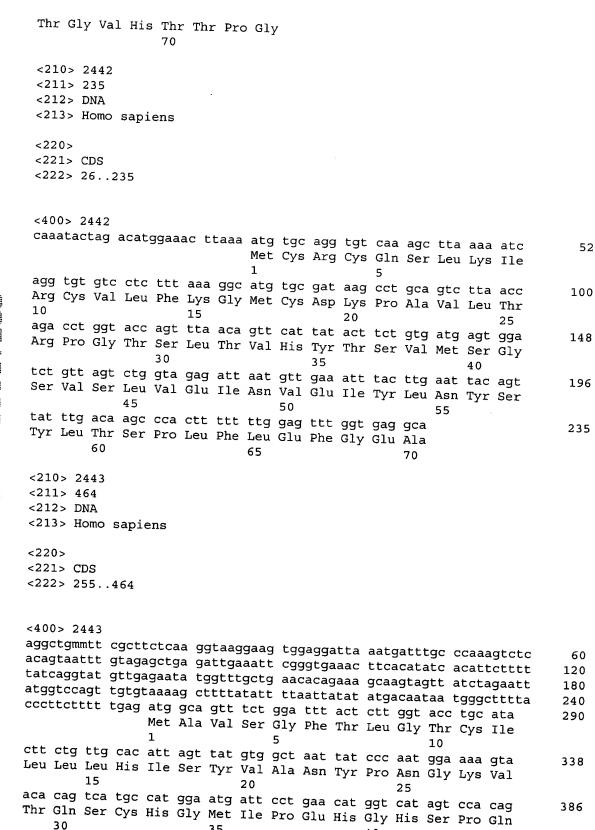
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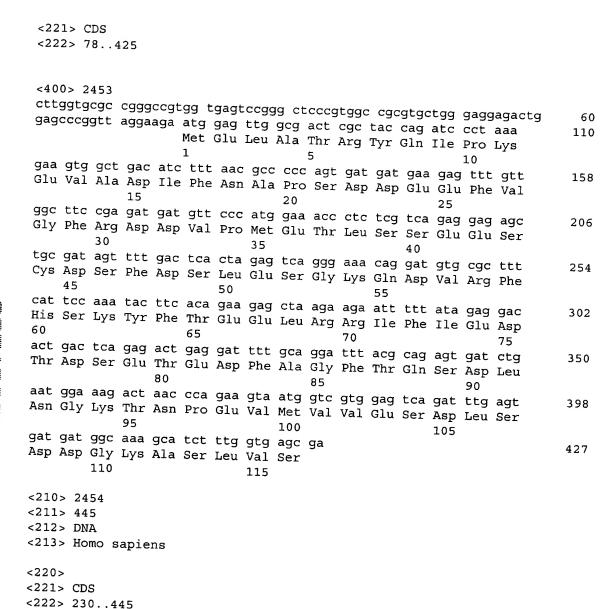
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Me	t Ile	e Il	e Hi	s Cy	s Ās	p Phe	e Ası	ı Le	u His	s Ph	e Hi	s Ae	r ya	r ag	t gat r Asp	166
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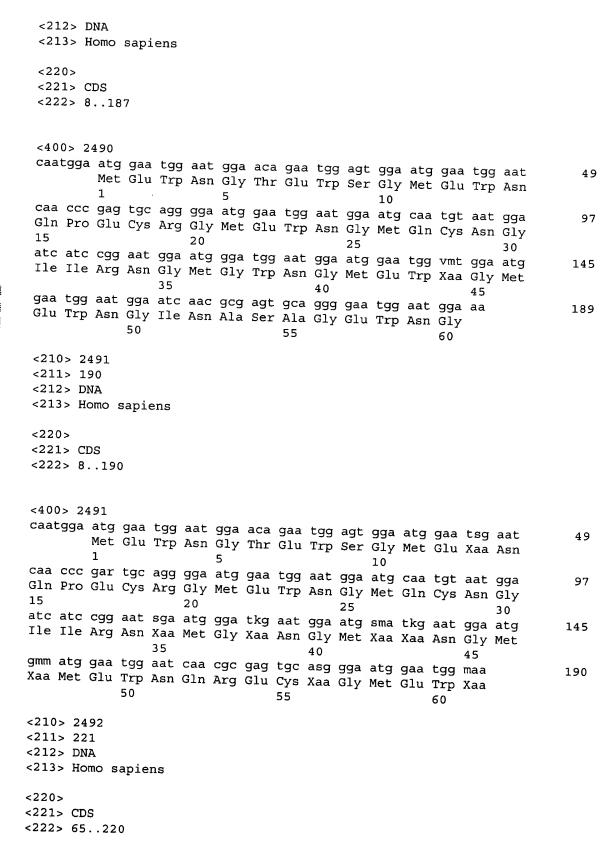
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cac aat ctc age tea etg caa get eeg eet eeg geg tte age een tte	
His Asn Leu Ser Ser Leu Gln Ala Pro Pro Pro Gly Phe Thr Pro Phe	199
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Xaa Val Met Glu Ser Lys Gly Val Glu Trp Asn Gln Pro Glu Cys Ser	98
20 25	
gga atg gaa tgg aac gga atg gaa tgg aat gga ttg gaa tgg aat gga	146
ory Met Gid Irp Ash Gly Met Glu Trp Ash Gly Leu Gln Trp Ash Gly	140
35 40	
atc aac ccg aat aca atg gaa tgg aat gga atg gaa tgg aat gcc ttc	194
Ash FIO Ash THE Met Glu Trp Ash Gly Met Glu Trp Ash Ala Phe	
50 55	
aaa ccg aat gga atg gaa agg aat gga atc aac acg agt gga atg gaa t Lys Pro Asn Gly Met Gly Arg Asn Cly Ilo Ass The Col	243
Lys Pro Asn Gly Met Glu Arg Asn Gly Ile Asn Thr Ser Gly Met Glu 60 65	
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ttg acc ata aaa ttt att tta att tat ttc tgg aat ctc tct ttt ct Leu Thr Ile Lys Phe Ile Leu Ile Tyr Phe Trp Asn Leu Ser Phe Leu 20 25	u
Phe Phe Pro Phe Leu Ser Tyr Pro Phe Leu Ser Phe Pro Phe Phe 35	t 201 e
ctt ttt ttt ctg gaa acc tgg tct ttc tct gtc acc cag gct gga atg Leu Phe Phe Leu Glu Thr Trp Ser Phe Ser Val Thr Gln Ala Gly Met	g 249
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Pro Arg Leu His Ala Ser Cys Ala Leu Met Ser Ser Arg Asp Gln Arg	149
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Cac aca His Thr	203

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gaa to act oga otg oag ggg aat gga atg gaa tgg aat gca atg gaa	164
of the ser in Alg Let Gin Gly Ash Gly Met Glu Trp Ash Ala Met Glu	
15	
tgg att caa ctt gaa tgg aat gga aag aat gga atc aac acg agt gca	212
Trp Ile Gln Leu Glu Trp Asn Gly Lys Asn Gly Ile Asn Thr Ser Ala	
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Met Gln Glu Ile Ser Arg Ala Trp Trp Arg	
geg cet gtg gte tea get gea tag gag get gag	
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15 20 25	
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agging and agg oug goo ooc gag tha the gag too cag got gat at	230
Met Arg Giu Leu Ala Pro Giu Leu Phe Glu Ser Gln Pro Asp Leu	
± 5 10 1e	
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Leu His Gln Leu Val Thr Xaa Met Asn Pro Asn Xaa Leu Met Glu His	
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Cys Leu Xaa Xaa Ser Phe Phe Xaa Xaa Phe Glu Thr Gly Ser Cys Ser	374
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ser	val	25	GIn	Asp	GIY	' Val	Gln 30	Trp	Arg) Asp	Leu	ւ Glչ 35	tca Ser	Leu	caa Gln	149
cct Pro	Leu 40	Pro	ccc Pro	agg Arg	ttc Phe	aag Lys 45	aga Arg	tto Phe	tcc Ser	tgc Cys	Leu 50	ago Ser	cto Leu	cca Pro	agc Ser	197
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Olu	AIG	116	35	att Ile	ьеи	Leu	GIn	Leu 40	Tyr	Gln	Trp	Gly	Val	Pro	Pro	206
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01	35	2 P.T.(Ala	. Asp	tgc Cys	ctt Leu 40	cat His	ctg Leu	tgt Cys	gcg Ala	gas Xaa 45	tcc Ser	cto Leu	tgg Trp	acc Thr	203
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Val His Asn Val Gln Val Cys Tyr Ile Cys Ile His Val Xaa Cys Cys 35	147
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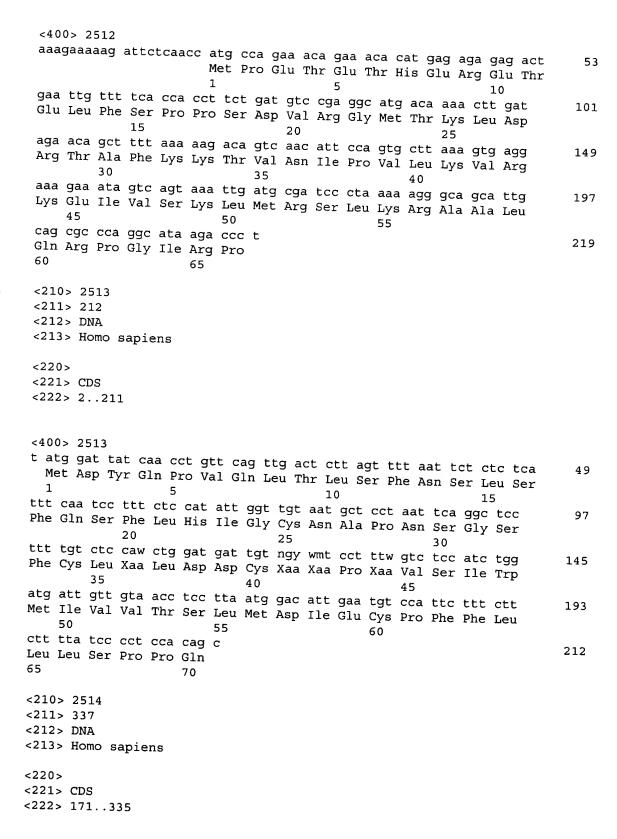
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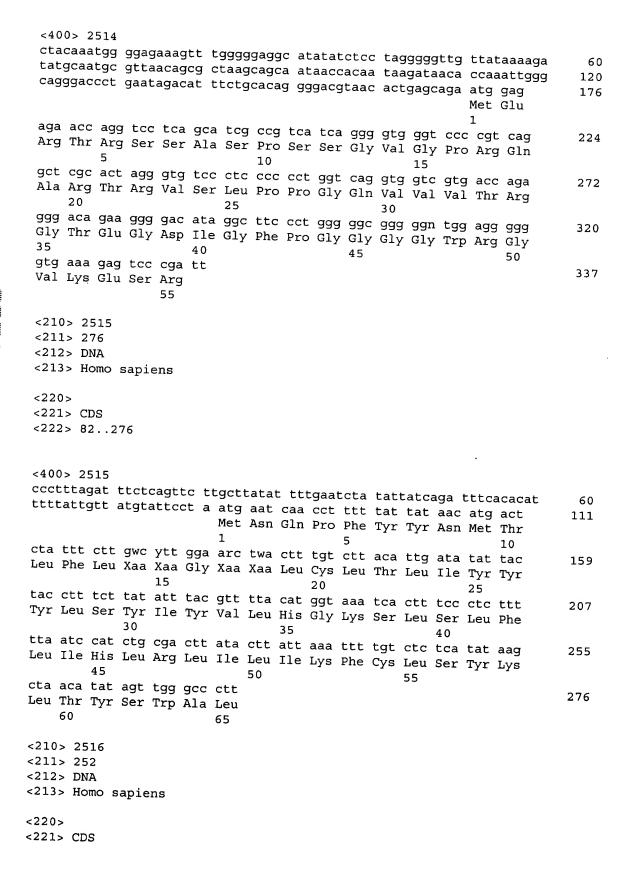


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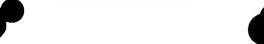
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O J D	20	1115	1111	ser	тел	. хаа 25	Pro	Phe	e Ala	a Lys	Let	gtc Val	Lys	ctc Leu	Arg	153
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	5	1113	Бец	ьец	GIÅ	ser 50	ser	Asp	Ser	Tyr	Ala	Leu	gcc Ala	tcc (Ser (caa Gln	197
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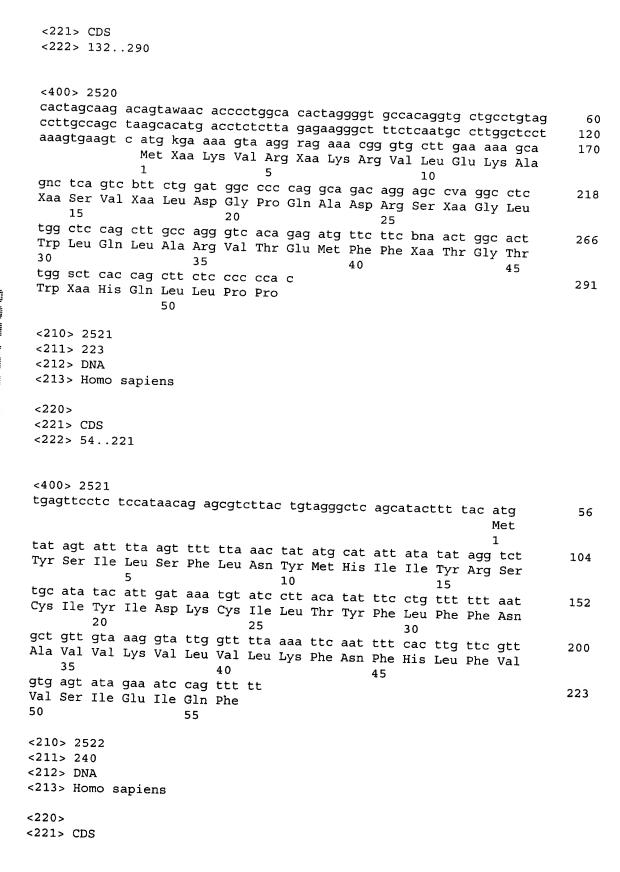
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Pro Xaa Glu Ile Pro Leu Met Phe Asn Leu Phe Tyr Leu Leu Ser Tyr 15	161
Arg Asn Gly Asp Tyr Ala His Cys Thr Met Ala Gln Ala Asn Val Gly 30	209
Trp Gly Leu Glu Asn Trp Arg Lys Ala Cys Leu Cys Val Val Pro Gln 45	257
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and and and the edge tot dec acc dag act and ata and the and	120 169
1 The Gin Ala Gly Val Gln Trp Arg Ala	100
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The his cys Ash Leu cys Leu Pro Gly Ser Gly Asp Ser Pro	217
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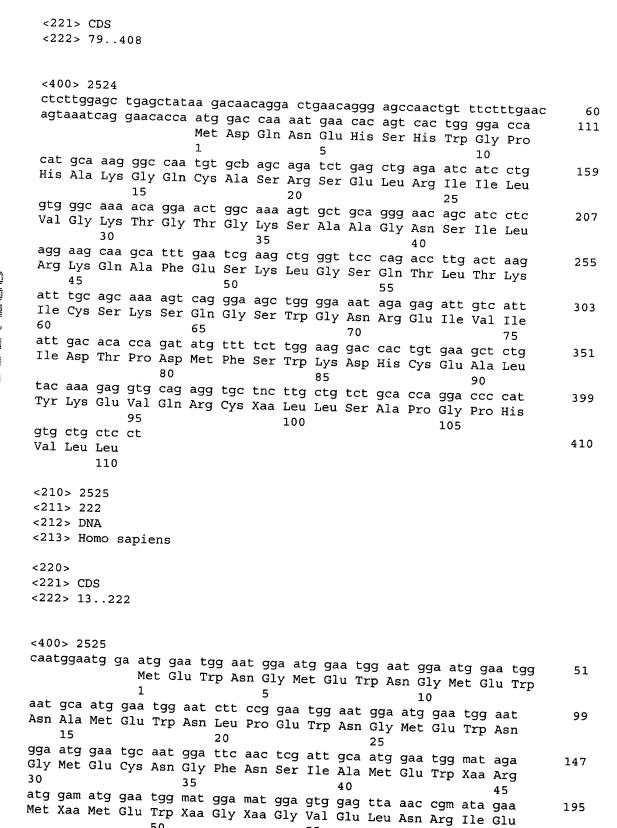


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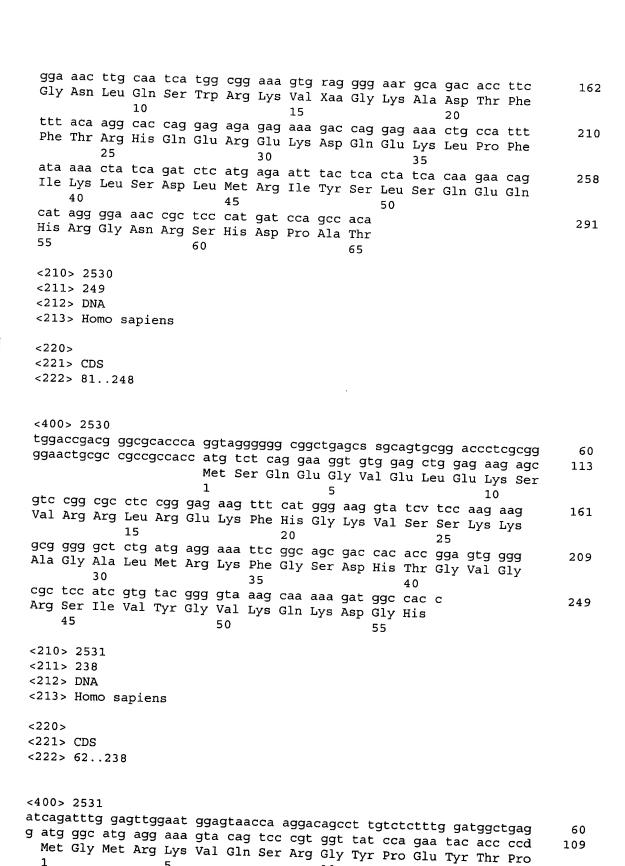
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Pro Va	al Ser 10	Ile	Ile	Lys	Asn	Thr	Leu	Ser	Ser	Leu	His	Tyr	Let	tta Leu	223
cac to His Se	c tac	ttt	cct	cct	ccc	cta	gat	tat	+++	aar	20				
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157

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Ser Arg Leu Ser Leu Pro Arg Ser Trp Asp Ile Gly Val His His His 30	207
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Cys	Arg	Ser	Ala	Pro	Pro	Arq	Pro	Ala	Asn	Phe	Cve	מנו דור	Dh	agt	aga Arg	248
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Asp I	JCu 1	ıua (31y . 10	set	GIY	Asp	Ala	Leu	Thr	Leu	Ala	Ser	Gln	Ser	Thr	
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Xaa F	110 1	25	Asp	vaı .	ser	Tyr	Cys	Ala	Arg	Pro	Gln	Ile	Asp	Phe	Ser	
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± 116	FIIE	ьeu	Th 10	~ -	er F	he S	er P	ne F	he L	eu F	he G	lu A	rg (Slu S	Ser (Cys	
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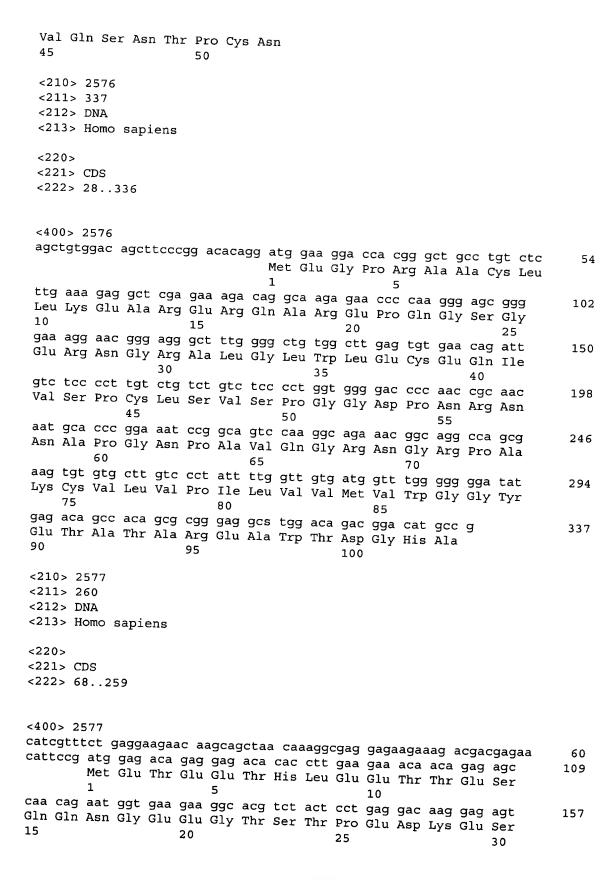
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gga Gly	11e	GIU	ніs 20	Lys	His	Val	Leu	Asn 25	Leu	Leu	Asp	Glu	Ile	gag Glu	Asn	216
atc Ile	пуѕ	35	vaı	Pro	GIN	гуѕ	Leu 40	Glu	Gln	Cys	Met	Ala 45	Ser	Lys	His	264
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gcc ggg gct cag cca gga ggc agg gcc att ggg gca ggg tgg cag tcc Ala Gly Ala Gln Pro Gly Gly Arg Ala Ile Gly Ala Gly Trp Gln Ser 25 30 35 40	210
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Ang his Cys lie Asp Arg Tyr Ala Ile Asn Tyr Gln Phe Arg Ile Phe 10 15 20	100
atc ggt tta ggt ttt ttt aac gaa ggt tgg aaa aaa gct ggg aac agc Ile Gly Leu Gly Phe Phe Asn Glu Gly Trp Lys Lys Ala Gly Asn Ser 25 30 35	148
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40 45 Cys Val Gly Ser Cys Cys Phe Val Ile	
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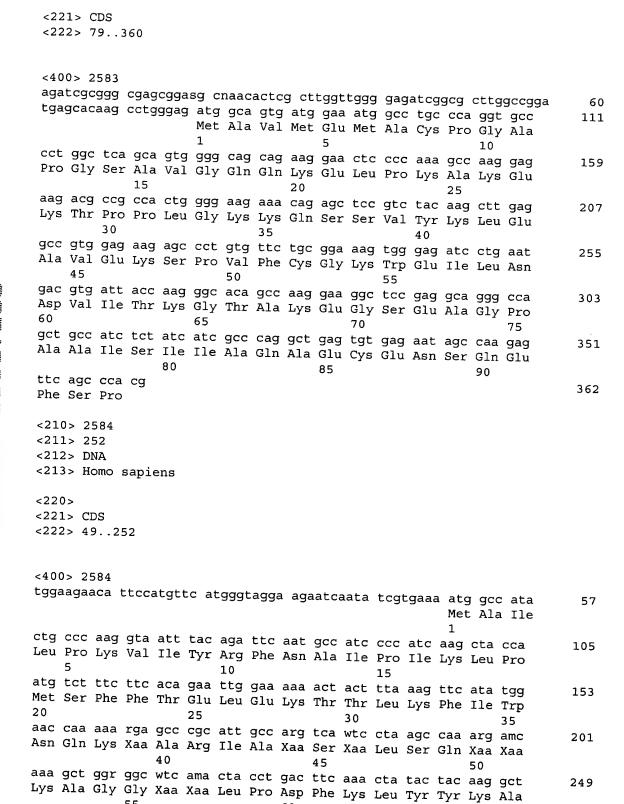
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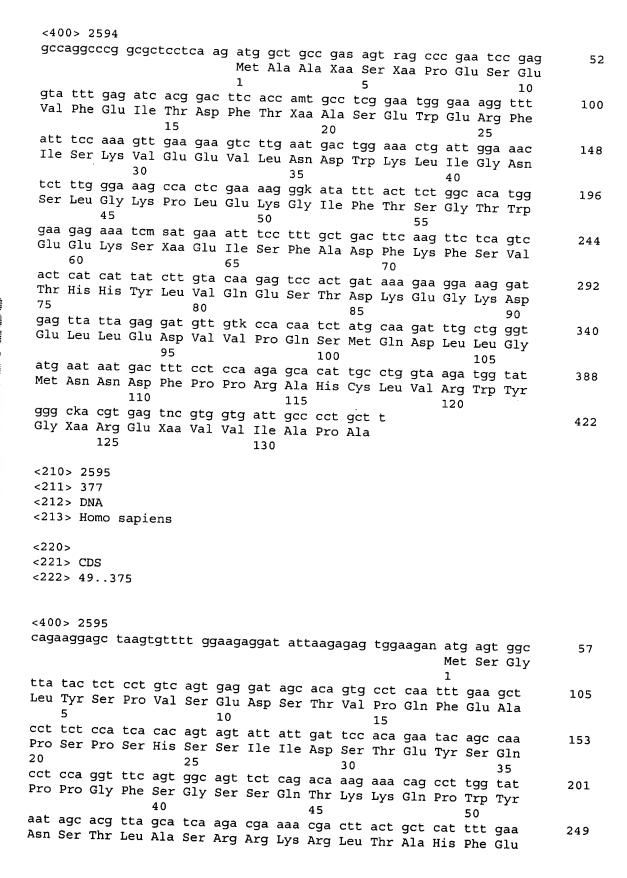
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Pro Ala Lys Tyr Leu Gln Thr Leu Gly Arg Arg Leu His Ser Gln His	157
agg act tcc ctt aac agt ttc cgg atc agt gac cac cac cac gtt cag Arg Thr Ser Leu Asn Ser Phe Arg Ile Ser Asp His His His Val Gln 35 40 45	205
gtt tct gaa tgc aga ccc acc acg agg gat gga ttc crs ccg ccc gcc Val Ser Glu Cys Arg Pro Thr Thr Arg Asp Gly Phe Xaa Pro Pro Ala 50 55 60	253
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yal Phe Asn Leu Thr Ala Thr Phe Leu Leu Lys Pro Lys Pro Arg Val	266

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gaa kca ggg aaa ggc ctg gak atg ang aak ctg gtt ctc tcg ggg t Glu Xaa Gly Lys Gly Leu Xaa Met Xaa Xaa Leu Val Leu Ser Gly p	tc 319 The
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ngc.	agca:	agt g	jayca	latto	aa tg aa tt	tkaa	ccat	: aac	rtaad	tat	aacc	ית של ביי	r+ ~ +			180
												Met	Arg	Ala	Leu	235
5	0111	טעב	ALU	Бец	tgg Trp 10	ser .	лаа	GIU	Asp	Arg 15	Lys	Xaa	Met	Cys	Ile	283
Olu	Vai	Naa	116	25	gcc Ala	ser (Cys	Xaa	Glu 30	Gln	Cys	Glu	His	aat Asn	gac Asp	331
cta Leu	ttt Phe	пец	ttg : Leu : 40	gta Val	aga Arg (Caa q Gln '	val	gac	ttc	tac Tyr	ttg Leu	Xaa	a - a	~~+	aac t Asn	380
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agg Arg	gac a Asp A	aac o Asn I	ect t Pro S	cc der I	cta c Leu L	tc t eu C	gc t	cc a Ser T	icc c	gt g	gca d Ala E	ccc c Pro P		ag a ys A	igg Ara	164

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or any dry dry trp Asp Glv Ser Cvs Cvs Val Ala Lou Clu	212
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7 10 15	
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5	· · ·	. Naa	vai	Ата	. цув 10	Pne	AS	э туг	r Va.	L Ala 15	a Glr	ı Glr	ı Glı	ı Glı	a gag n Glu 20	164
nuc	, vor	, 116	груѕ	ьуs 25	Asn	Glu	Arg	g Lei	ı Trp 30) Leu	ı Lev	ı Asp	Asp	Sei	aag Lys	212
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	1	l	эту с	tu G	itu j	inr 1	ile (₃TÀ I	Jys I	iys I	Leu I	Pro I	Ala 1	Thr :	Thr	168
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C _I D	110	65	vaı	СТУ	rrp		31u 70	GIY	Glu	Leu	aac Asn	ggc Gly 75	aga Arg	cga Arg	ggc Gly	360
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gat of Asp A 15 cct of Pro H	gat Asp ' Cac (His (Mac t Asn S 260 297	tac Tyr cag Gln tca Ser	tat Tyr ggt Gly gtt gtt a	gtt Val gtg a Val 35 atc (tct Ser 20 aaa Lys	tct Ser	aat Asn cat His	Thr agc Ser gcc Ala atc Ile	Trp atg Met ccg Pro 40	Met tct Ser 25 gga Gly	Val 10 gta Val gaa Glu	Ala cat His tgc Cys	Ala ttc Phe ttc Phe gca Ala	Trp cca Pro caa Gln	Ile aag Lys 30	217 265
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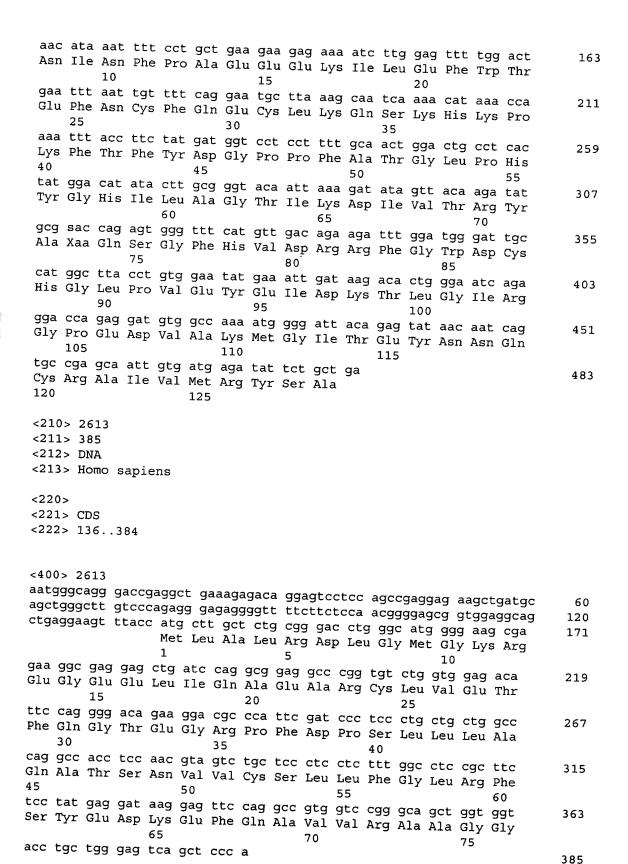
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Let	і Гуя	, 01,	ı Arg	Val	Gly	Val	Gly	Ala	Gly	v Val	. Va]	Cys	S Cy	s Ar	g Pro	190
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Caa	cagg.	aca	u acç	, cgc		Lyc	CCS	a cgo	ac ac	c ttt	t to	t tc	c ad	a aa	t cat	230
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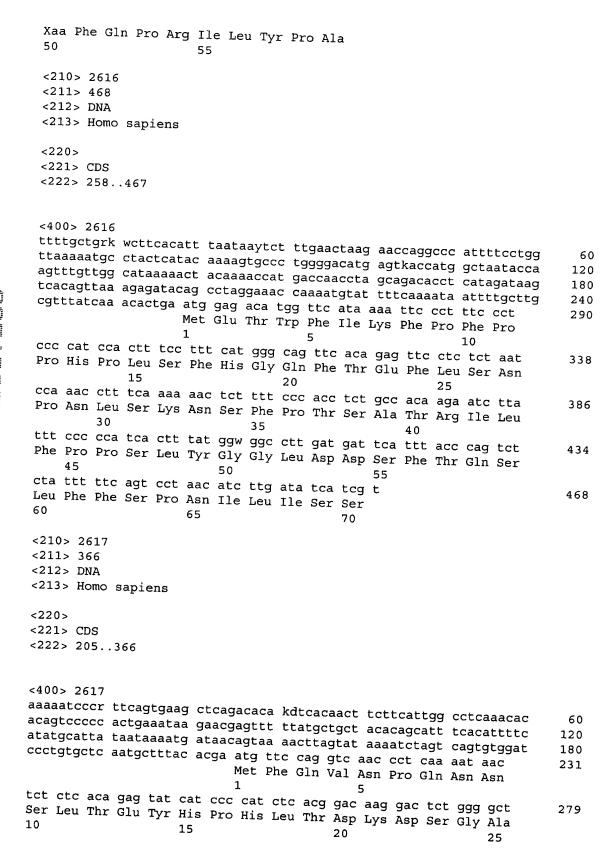
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Lys Ile Ile Arg Ala Ile Tyr Asp Lys Pro Thr Ala Asn Ile Ile Leu 40	202
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Leu His Asn Gln Arg Glu Phe Ser Met Ala Asp Phe Leu Leu Glu Thr	97
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Gly Leu Ala Gln Glu Cys Val Ser Xaa Ser Cys Gly Thr Arg Leu Ile	390
and our cys Gry int Arg Leu Ile	



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ted tag dag get and all	
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ser Ile Cys His Ser Val Leu Gly Thr Ile Ser Leu Phe Cys Asn Met	-
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age age cag egt ace	taa ata taa	20	. 25	
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FF	. Lo Lys Giu i	Arg Cys Ile	Ala Ala Ser Leu Gl	u
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75		80	or	L
ccc ttt gcc tgg agc c Pro Phe Ala Trp Ser P	ct ctg gcc c	700	tta ata man	
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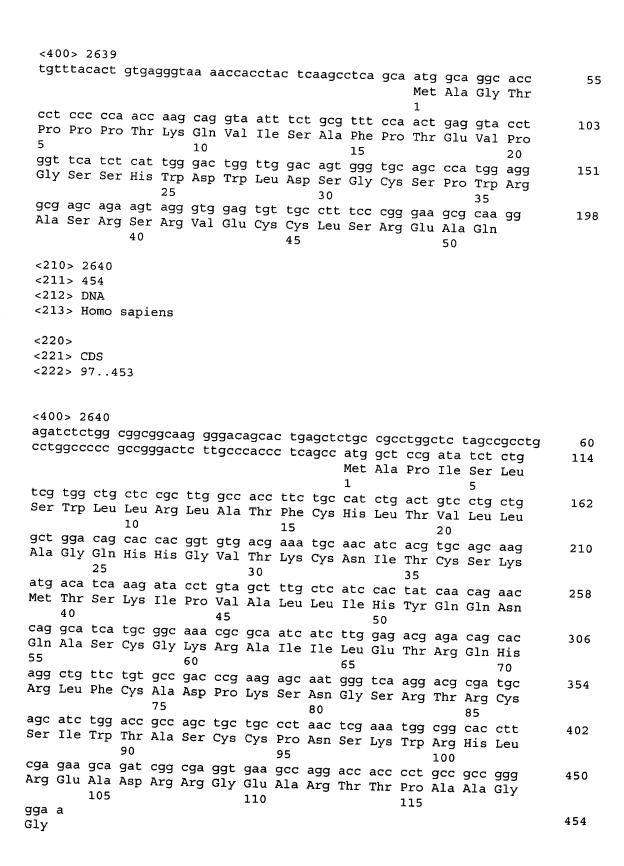


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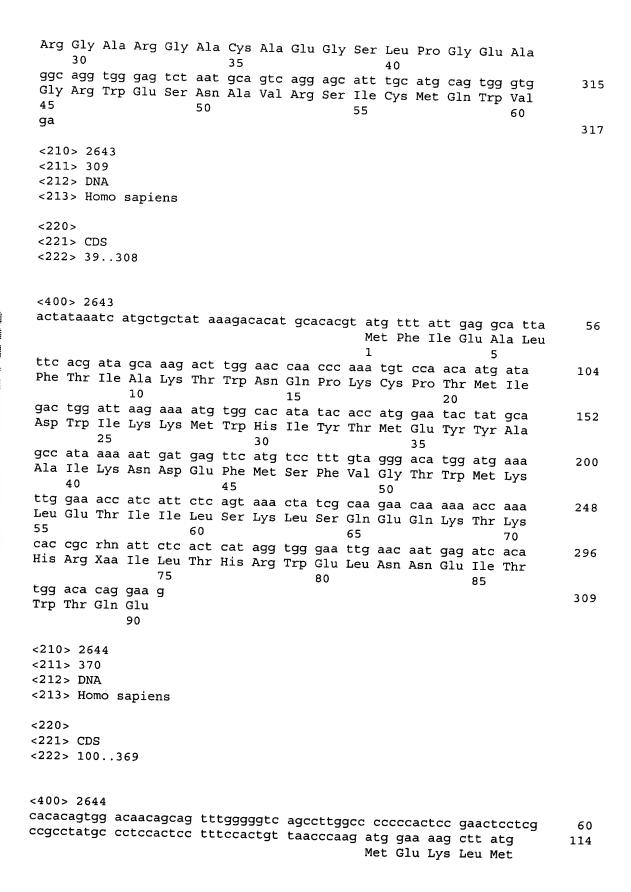
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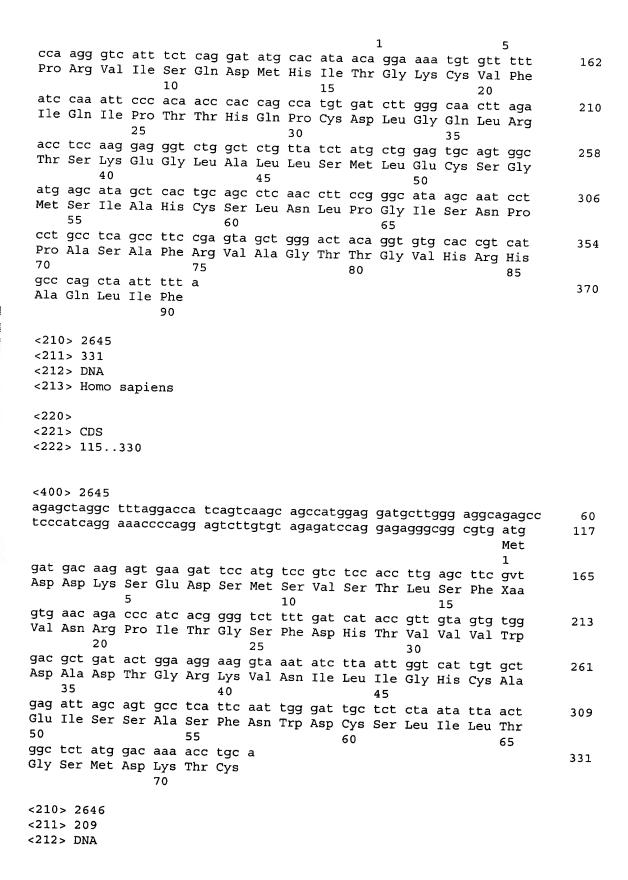


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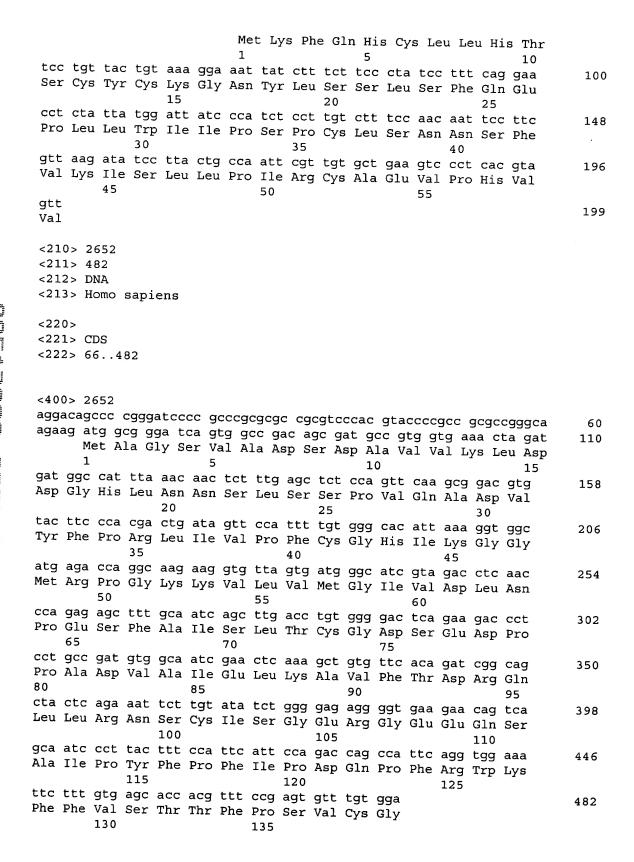
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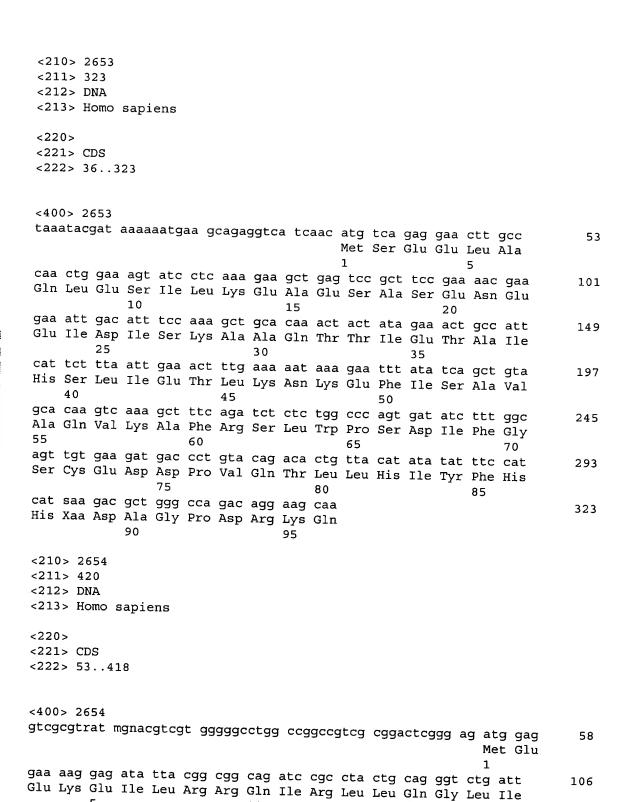
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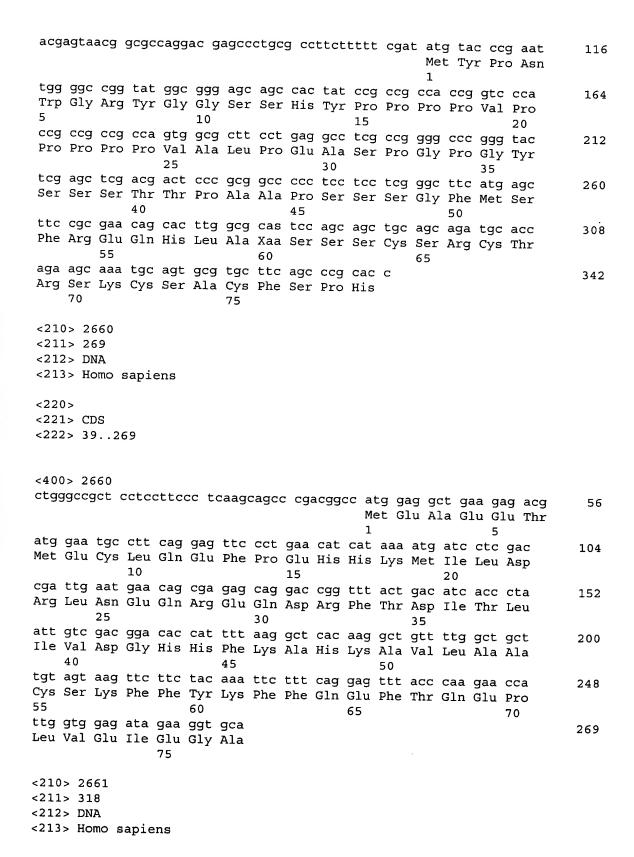




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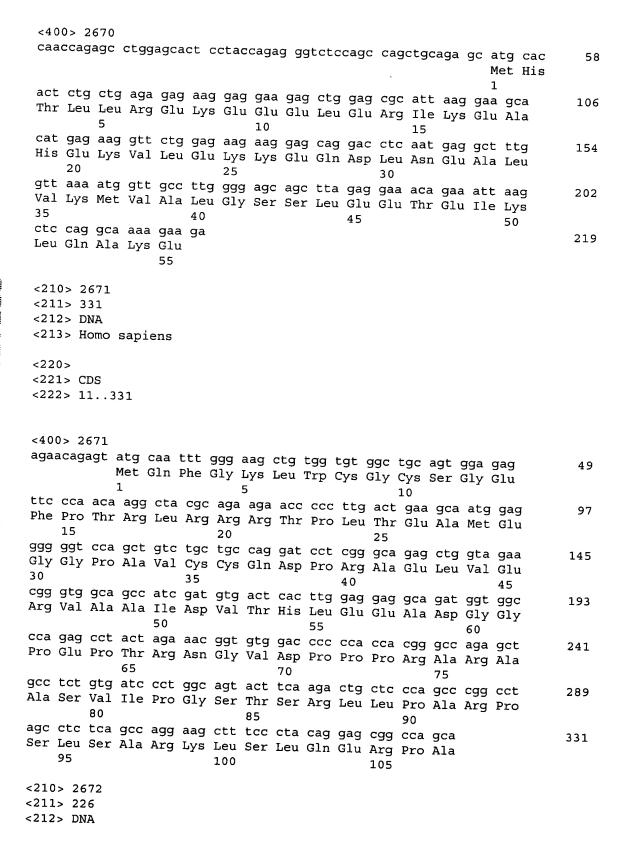
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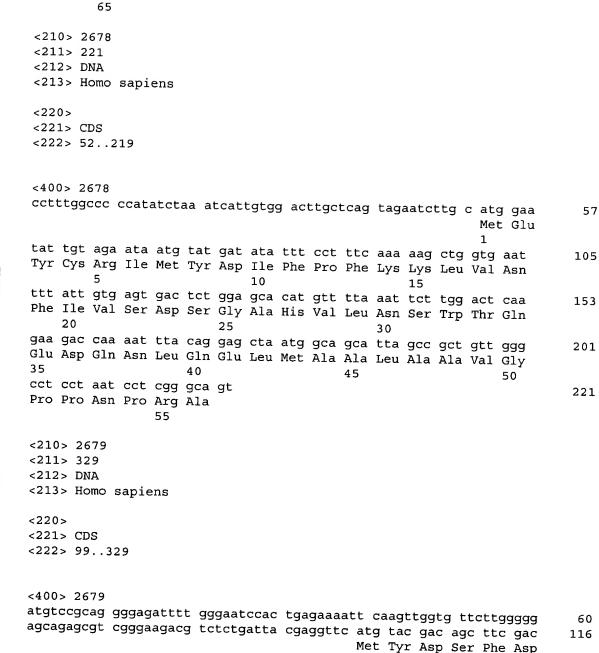
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Gln Asp His Phe Gln Val	334



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Gin	Pro	Ser	Arg 35	Phe	Gly	Asn	Lys	Ala 40	tac Tyr	Arg	Thr	Trp	Tyr 45	Ala	Lys	264
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237

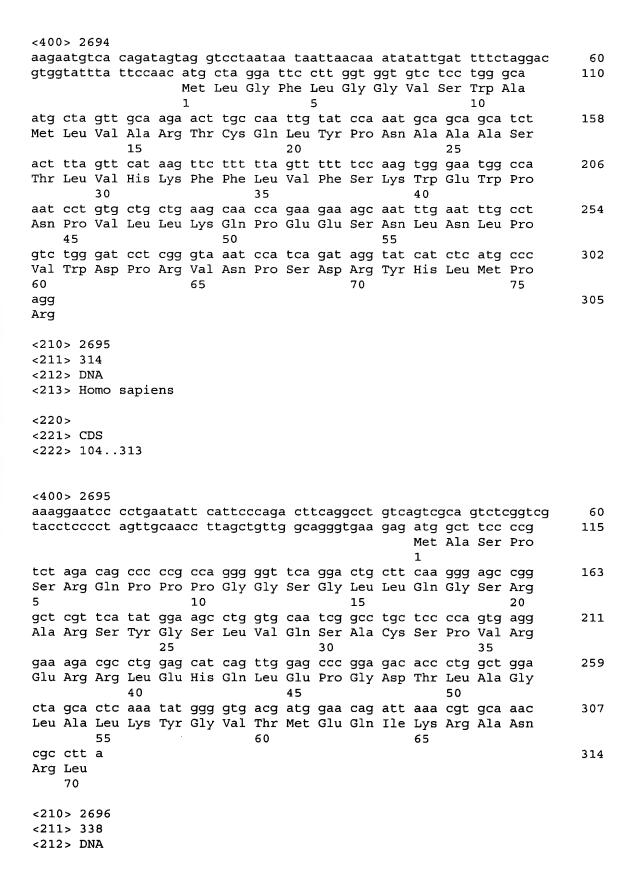
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338

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Arg 65	val	Val	Arg	Glu	gag Glu 70	Pro	Gly	Thr	Phe	Ser 75	Ile	Ser	Phe	Ile	Glu 80	240
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Met Asp Gln Pro Arg Asn Pro Cys Glu Asn Glu Pro Leu 1
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Fro Gry Tyr His Gly Phe Pro Ala Arg Asp Ser Gln Gly Asn Gln 15
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Silic Pro Thr Thr Thr Pro Asp Ala Met Val Gln Pro Phe Thr Thr Thr Thr 45
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Pro Pro Pro Pro Pro Gln Asn Gly Ile Pro Thr Glu Tyr Gly Val 550
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10 15 20
ege age tge gag gag etc act geg gte eta ace eeg eeg eag etc etc 151
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Ala Pro Arg Lys Val Glu Pro Arg Arg Ser Asp Pro Gly Thr Ser Gly 60 65 70



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90

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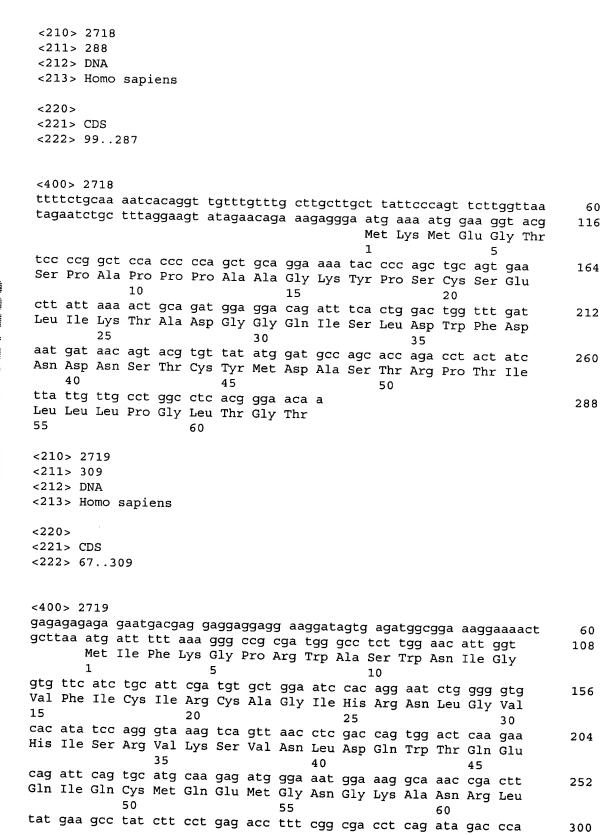


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Leu Lys Gin Ser Ser His Leu Ser Leu Pro Trp Gln Leu Gly Ala Thr	
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Ser	Leu	Asp	Ser	Pro 25	Ser	Ala	Tyr	Pro	Gln 30	Gly	Pro	Leu	Val	ccc Pro 35	Gly	211
Ser	Ser	Leu	Ser 40	Pro	Asp	His	Tyr	Glu 45	His	Thr	Ser	Val	Glu 50	cct Pro	Met	259
GIÀ	Cys	Thr 55	Arg	Gly	Arg	Arg	Gly 60	Asn	Ser	agc Ser	gca Ala	cgc Arg 65	gra Xaa	ggc Gly	cca Pro	307
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tcg gag Ser Gli 30	л теп	iie Ai	rg Le 35	u Ile	e Asr	n Ası	n Al	a Il 40	c aa e Ly	g aa s As	t ga n As	c ct p Le	g gcc u Ala 45	325
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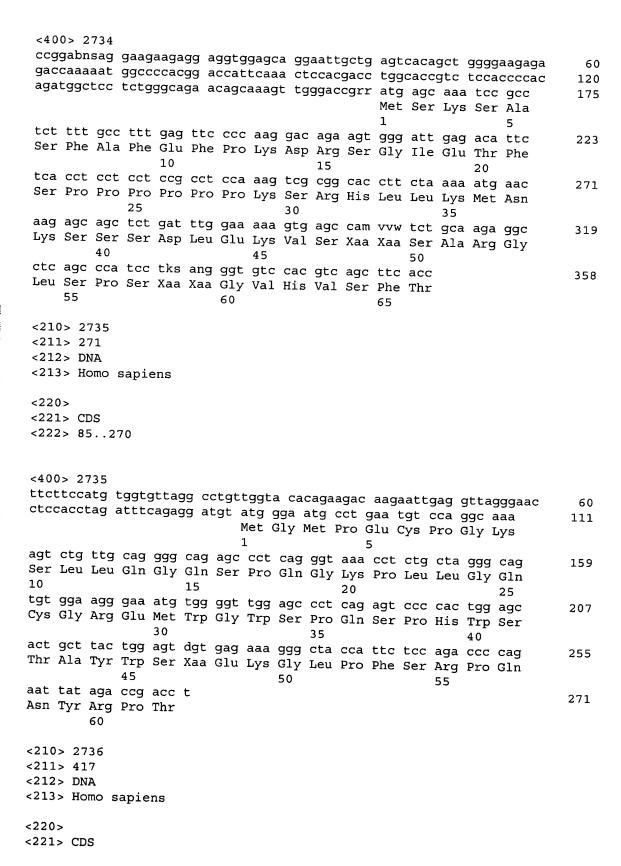


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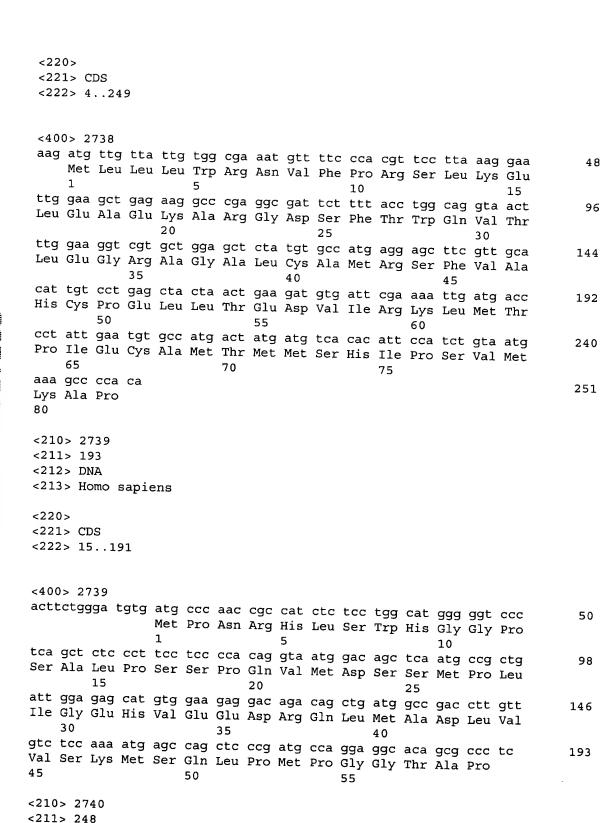


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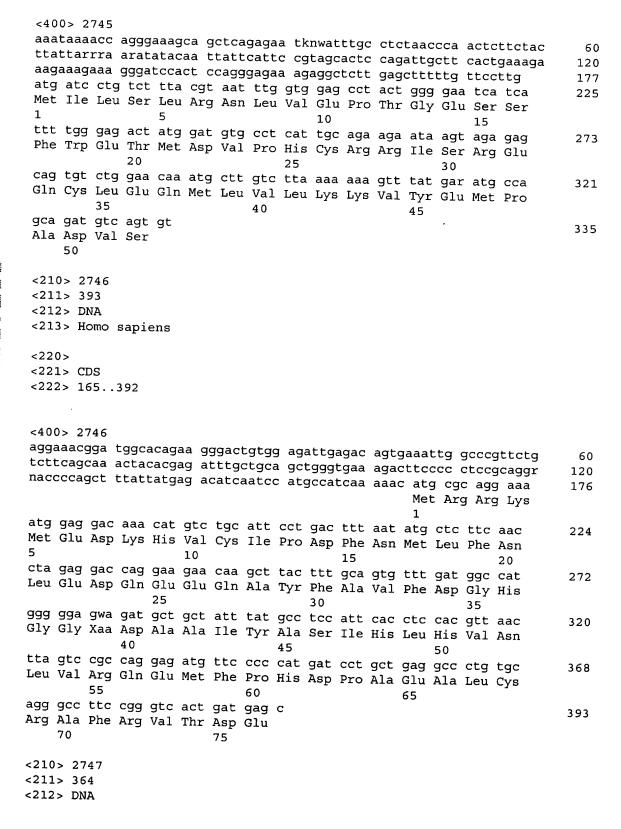


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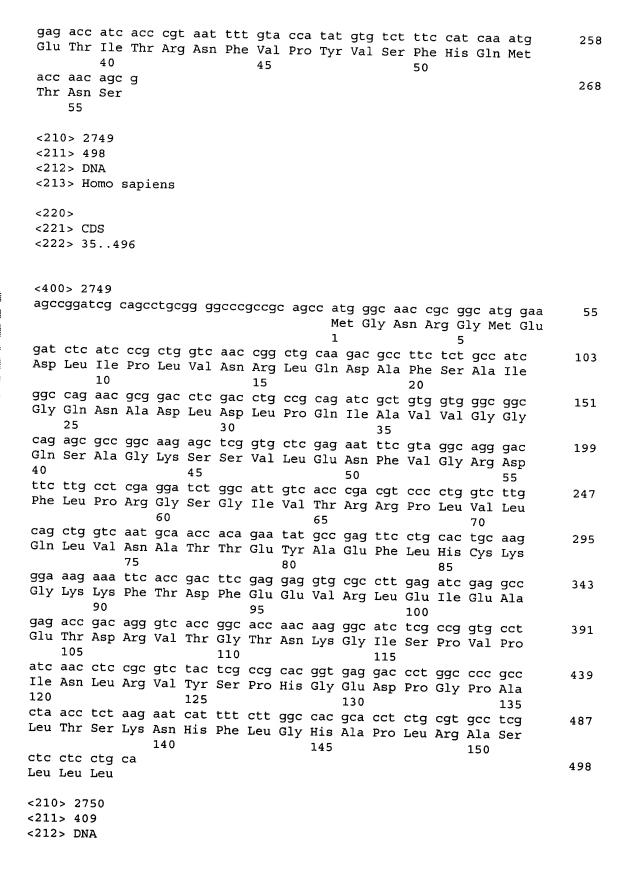


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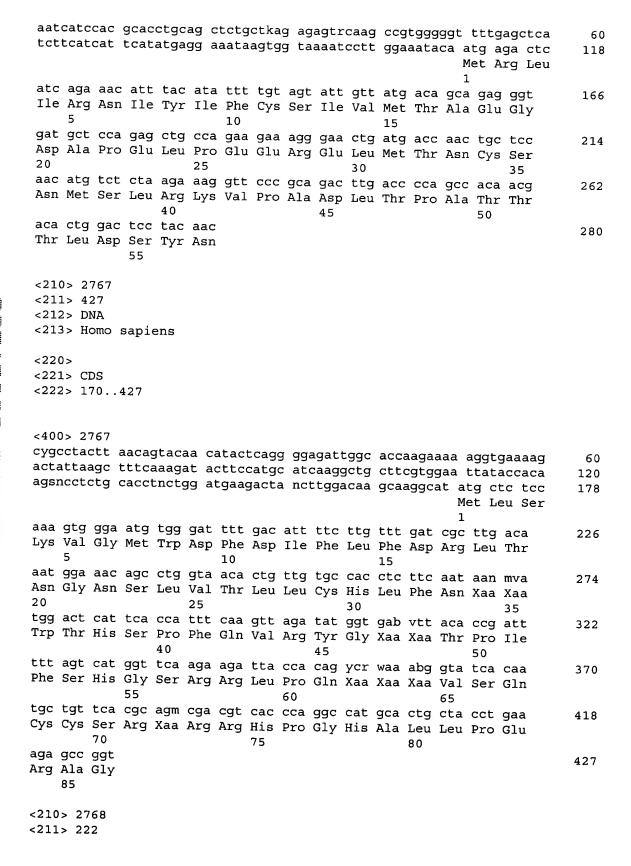
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Tyr Ser Ser Ala Ala Ala Leu Pro Ser Xaa Ile Leu Asn Pro Asp Ile 20 25 30	154
ccc tac aac cag ctg ttc atc aac aat gaa tgg caa gat gca gtc agc Pro Tyr Asn Gln Leu Phe Ile Asn Asn Glu Trp Gln Asp Ala Val Ser 35 40 45 50	202
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aag ggg gta ctc gac cgg gag atc cag gaa gcc aag aac atc gag ttc Lys Gly Val Leu Asp Arg Glu Ile Gln Glu Ala Lys Asn Ile Glu Phe 30 35 40	146
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aaa aat ttt aat ata aac ttt cat cca gtt agc ttc ata act ttt acg Lys Asn Phe Asn Ile Asn Phe His Pro Val Ser Phe Ile Thr Phe Thr 25 30 35	271
ttc cag aat ttt gtt tat ttt cct gtc aat krw rag cat ttt wra aga Phe Gln Asn Phe Val Tyr Phe Pro Val Asn Xaa Xaa His Phe Xaa Arg 40 45 50	319
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Asn Pro Val Pro Gln Leu Glu Met Gln Lys Ser His Ile Phe Cys Ile 25 30 35	213
gct cat gct tgg agc tgt aga ctg gag ctg ttc cta ttc ggc cat ctt Ala His Ala Trp Ser Cys Arg Leu Glu Leu Phe Leu Phe Gly His Leu 40 45 50	261
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gcc aca gc Ala Thr Al 20	la Thr GI: )	n Val Ala	ggg ac Gly Th	et aca or Thr	Gly Al	g tgc ca a Cys H	ac cac is His	Ala	154
cag cta at Gln Leu Il 35	le Phe va.	rne Lei 40	ı Val Ly	s Thr	ggg tt Gly Ph 45	e His H	at gtt is Val	ggc Gly	202
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gta att cg Val Ile Arç	g Ala Phe 30	Leu Leu	Phe Pro	a aca a	Ile Glu	a Arg Me	g tct t Ser	Glu	208
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cac aga aac aaa atc atg ccc tca gca gca aca tam gat aga act gca His Arg Asn Lys Ile Met Pro Ser Ala Ala Thr Xaa Asp Arg Thr Ala 30 35 40	206
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Ile Ile Tyr Leu Phe Asn Asn Arg Asp Glu Val Ser Pro Cys Cys Pro 15 20 25	
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The Bed in Ash Bed Tyr Arg Trp Val Thr Val Trp Glu Leu Met Ala	
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ggc att gag cat gcc ttg gcc ttg gac atc ttg atc agg aac tcc tgt Gly Ile Glu His Ala Leu Ala Leu Asp Ile Leu Ile Arg Asn Ser Cys 30 35 40	207
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lle Tr	g gtt gt p Val Va	ıl Leu	Gln 35	Arg	Ser	aag Lys	cag Gln	ccg Pro 40	atc Ile	cct Pro	gtt Val	ttc Phe	ata Ile 45		326
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ata ata an								+ 00	+		
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1807

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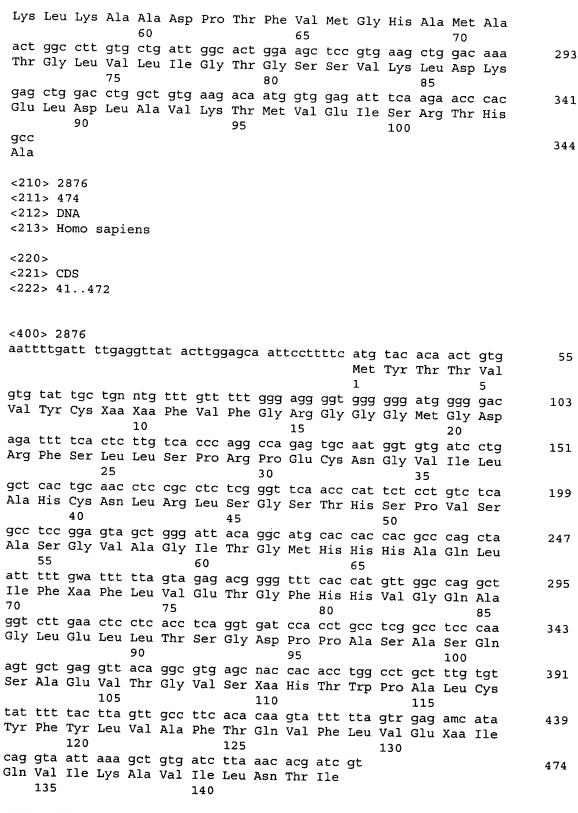
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Ser Pro His Ile Arg Phe Ser Leu Arg Val Asn Lys Leu Ser Glu Leu  25 30	153
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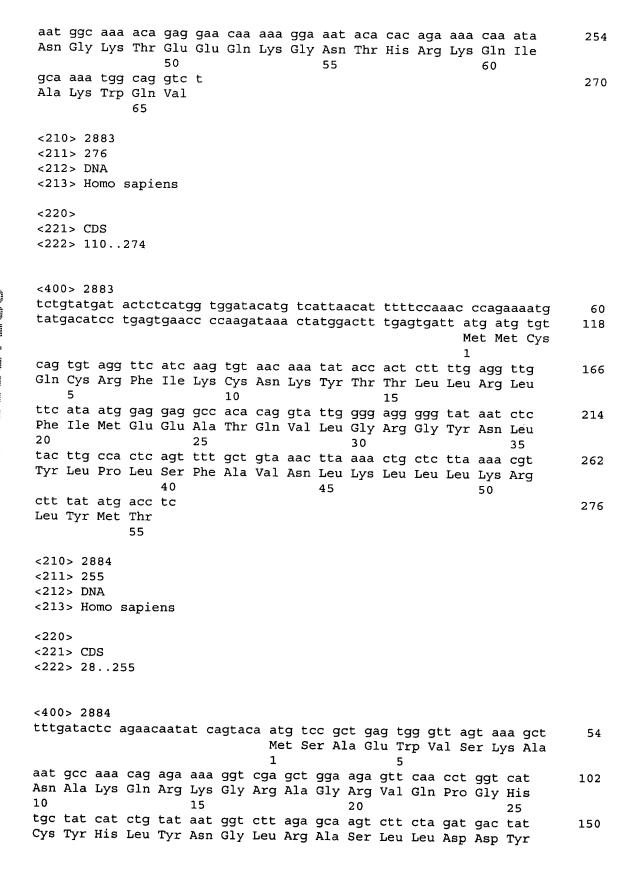


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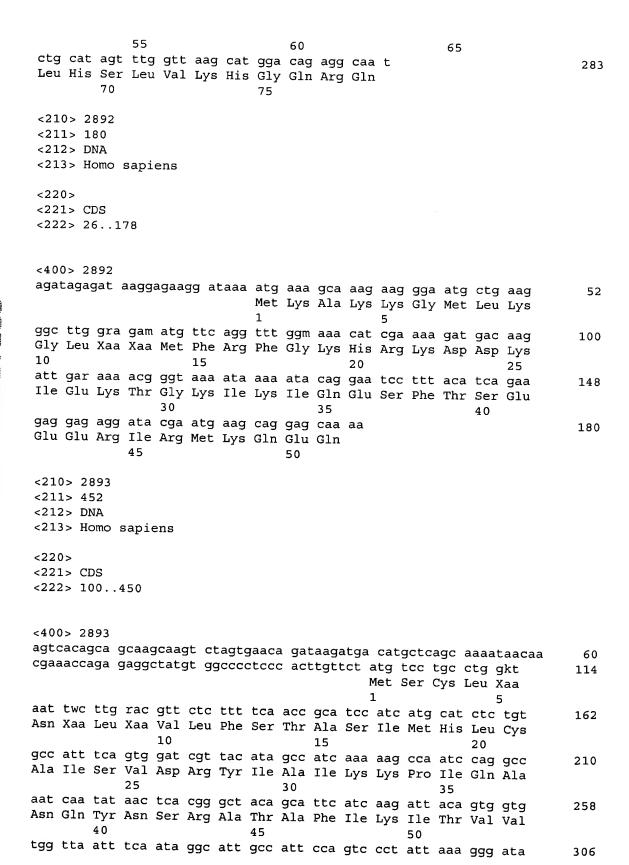


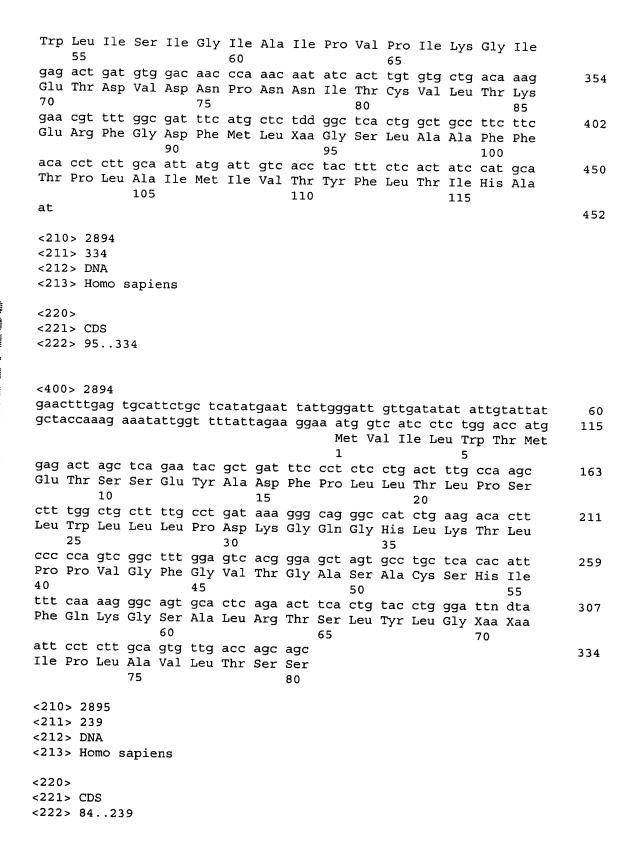
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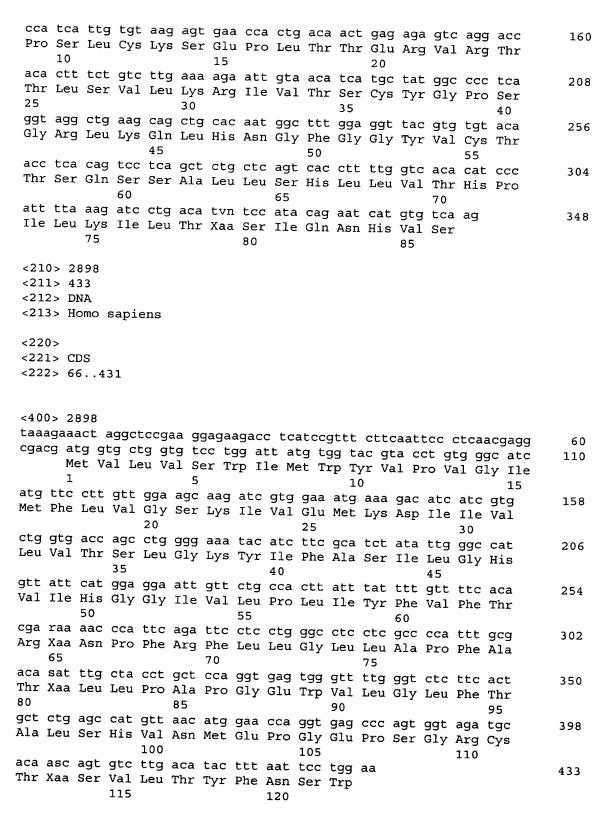
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Phe Ser Phe Gln Leu Glu Leu Tyr His Gln Pro Lys Gly Glu Glu Cys	209
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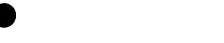


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55

315

363

411

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Ile Val Leu His Phe Ala Ala Gln Thr His Val Asp Leu Ser Phe Val 70 cgt gct tbg sag ttt acc tat gtt aat gtt tat ggc act cac gtt ttg





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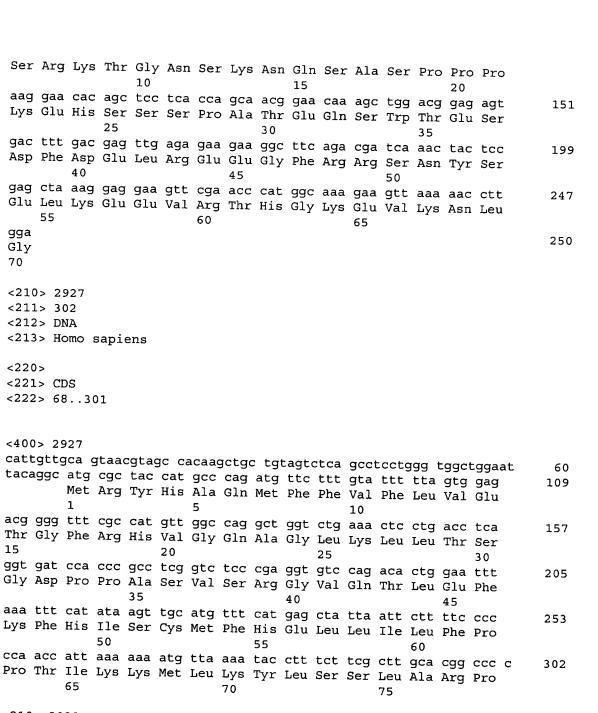




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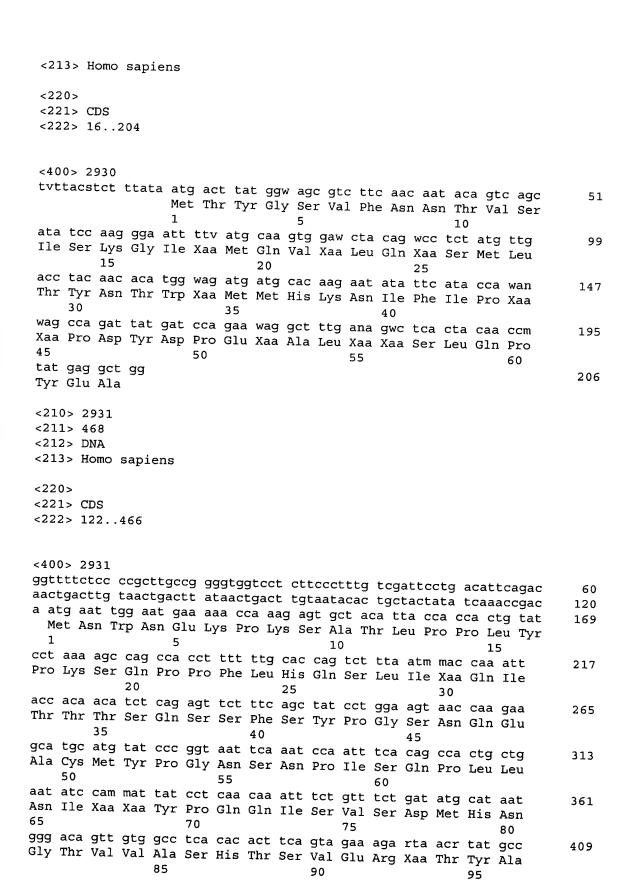
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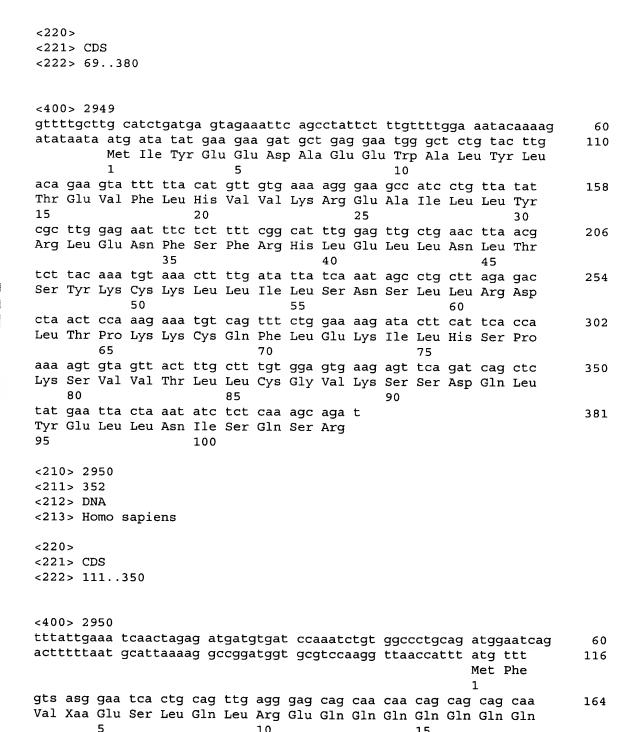
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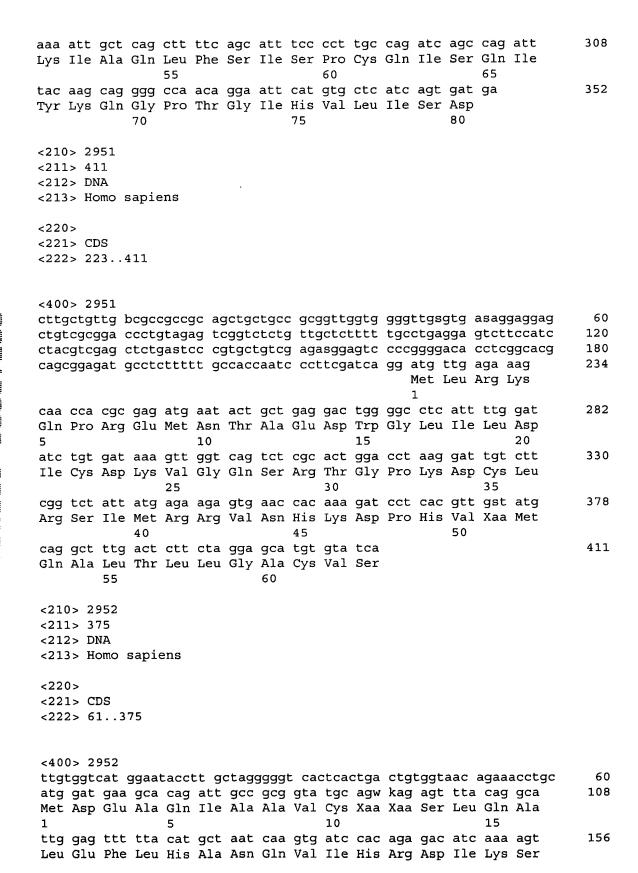
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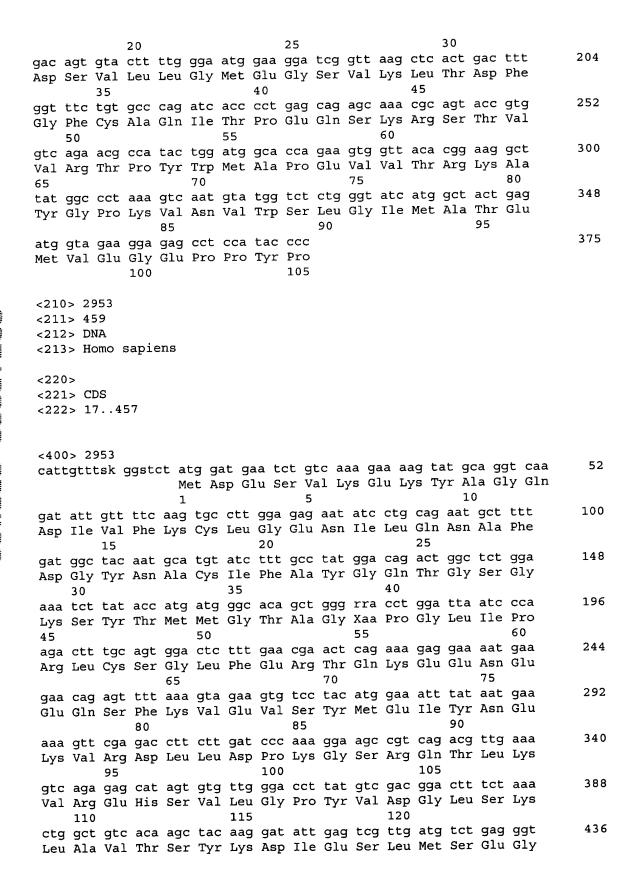
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25







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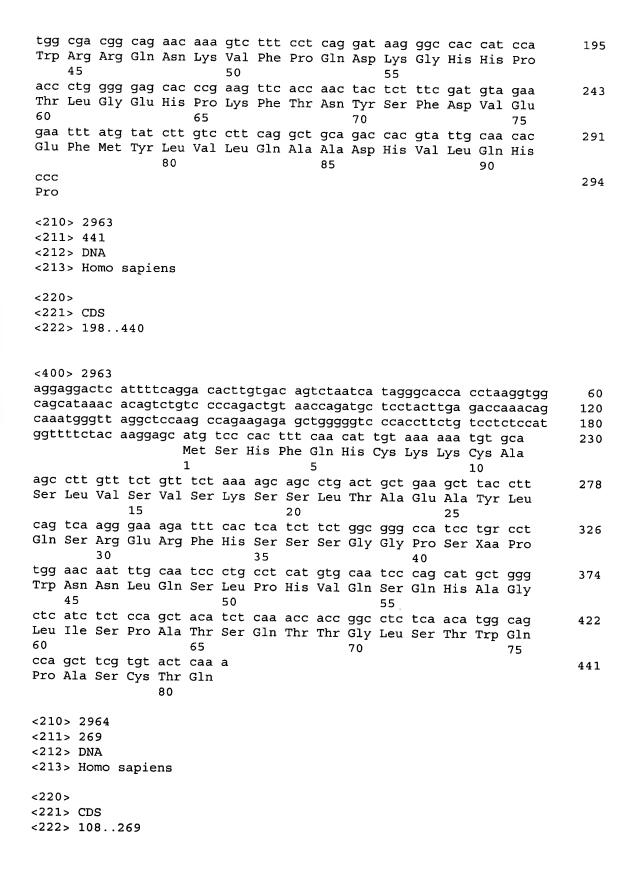
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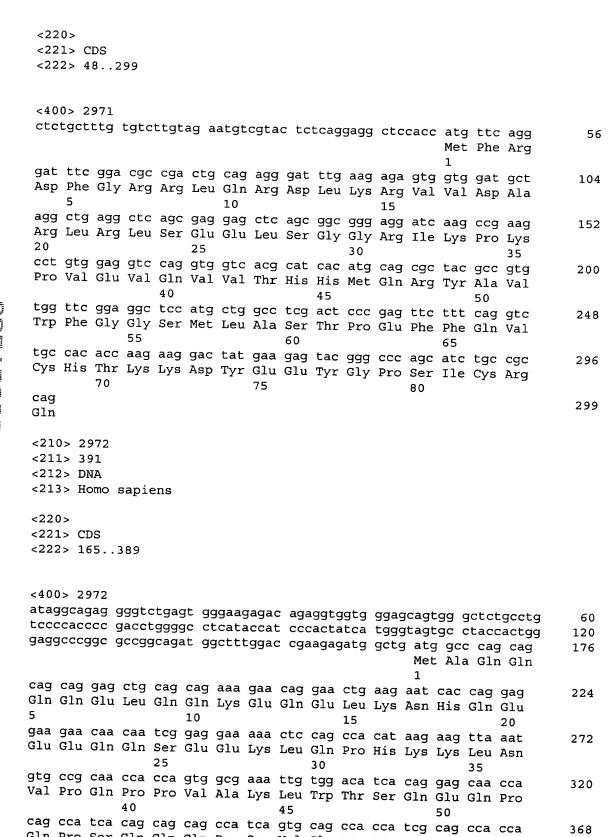


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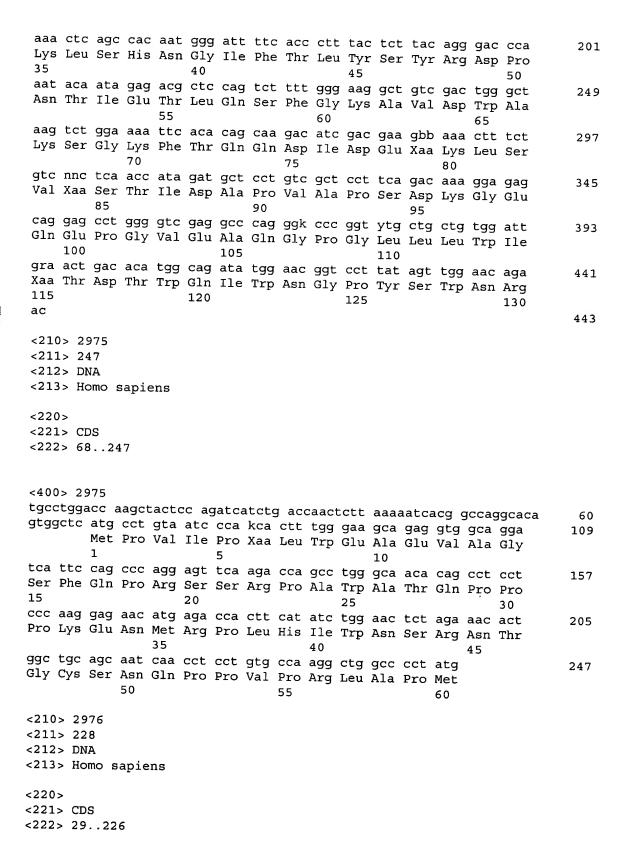
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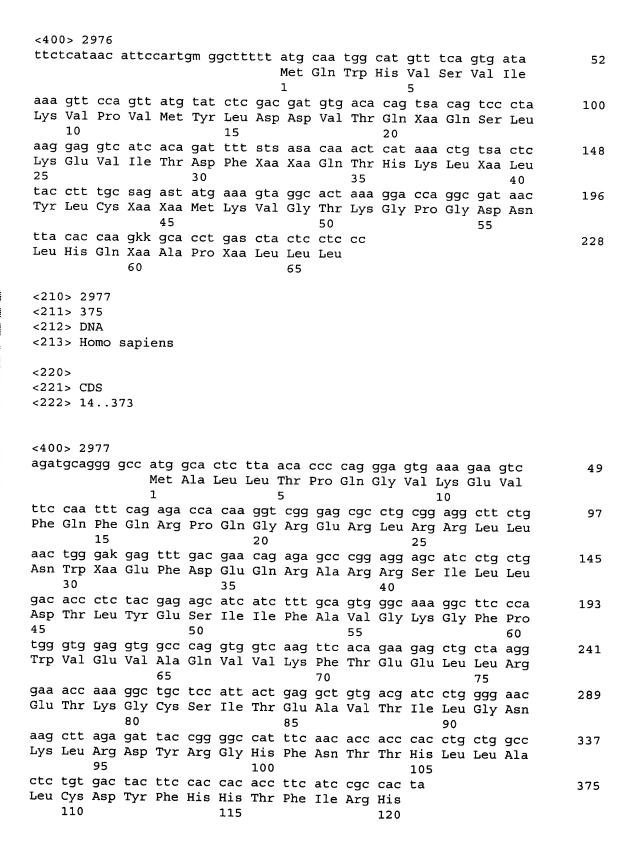
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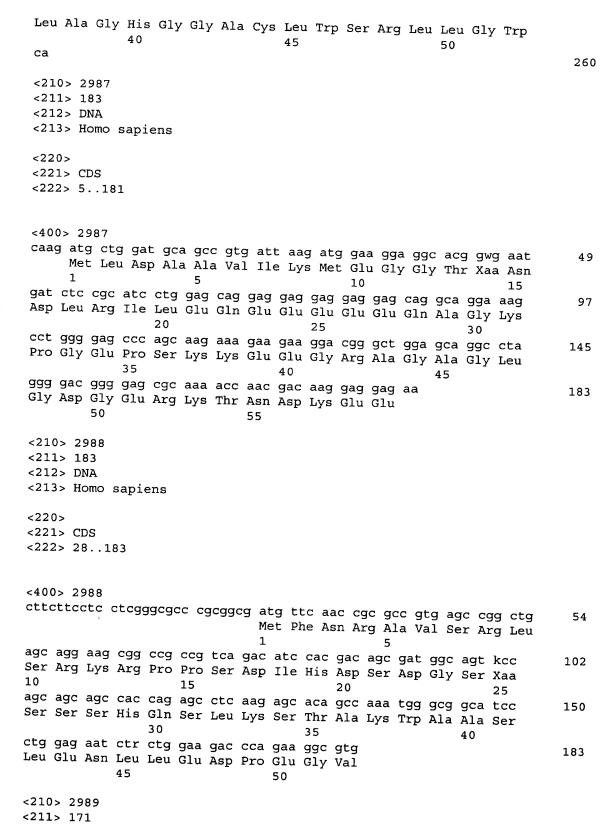


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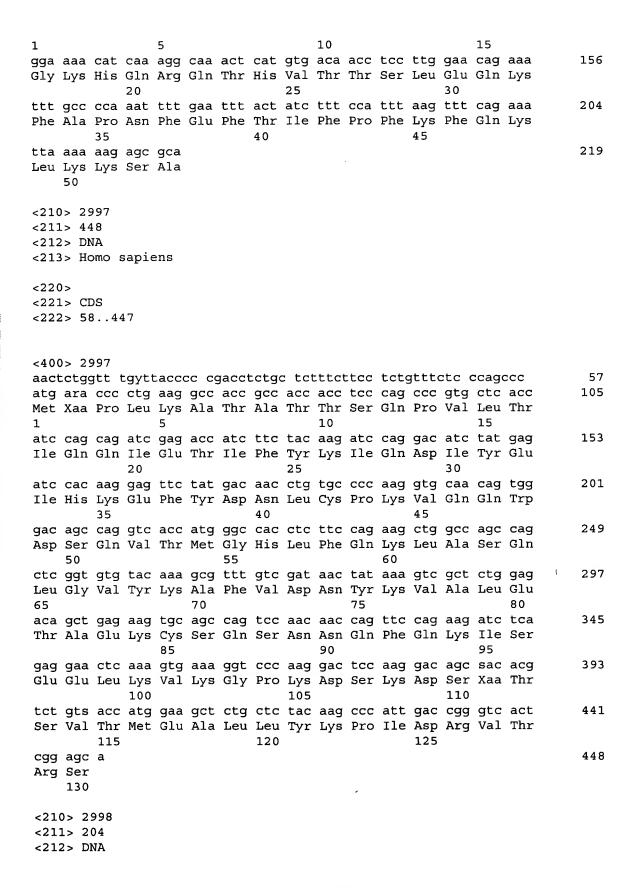


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~55	-cuu	4CC (	والالال	Judici	.c ag	Jacqa	qqqa	a acc	attt	ata	aact	ctcc	י אבי	700+1	~~~	178
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Met	Lys	Lys	Glu	Met	Ile	Ser	Leu	Ton							CCC	
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Ser His Leu Pro Val Gly Val Met Leu Pro His Asn Thr Thr Glu Ala           10         15         20           cca ggg ccc cac tca gcc aag caa gac tct tac gaa caa ggt gac tct         210           Pro Gly Pro His Ser Ala Lys Gln Asp Ser Tyr Glu Gln Gly Asp Ser 35         40           tcc cag cag tcc ttg aag ggg cac ctg agg aac aat ttc cag aag cag cag         258           Ser Gln Gln Ser Leu Lys Gly His Leu Arg Asn Asn Phe Gln Lys Gln 45         50           ctt ttg agc aac aaa gag ttg att ctg att ctg gat aaa gtc tat act cac ccc t 307           Leu Leu Ser Asn Lys Glu Leu Ile Leu Asp Lys Val Tyr Thr His Pro														
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Pro Gly         Pro His         Ser         Ala         Lys         Gln         Asp         Ser         Tyr         Glu         Gln         Gly         Asp         Ser           25         30         53         40         40         50         50         50         50         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258         258	cca ggg ccc cac tca gcc aag caa gac tct tac qaa caa qqt qac tct	210												
25 30 35 40  tcc cag cag tcc ttg aag ggg cac ctg agg aac aat ttc cag aag cag 258  Ser Gln Gln Ser Leu Lys Gly His Leu Arg Asn Asn Phe Gln Lys Gln  45 50 55  ctt ttg agc aac aaa gag ttg att ctg gat aaa gtc tat act cac ccc t 307  Leu Leu Ser Asn Lys Glu Leu Ile Leu Asp Lys Val Tyr Thr His Pro														
Ser Gln Gln Ser Leu Lys Gly His Leu Arg Asn Asn Phe Gln Lys Gln 45 50 55  ctt ttg agc aac aaa gag ttg att ctg gat aaa gtc tat act cac ccc t Leu Leu Ser Asn Lys Glu Leu Ile Leu Asp Lys Val Tyr Thr His Pro														
Ser Gln Gln Ser Leu Lys Gly His Leu Arg Asn Asn Phe Gln Lys Gln 45 50 55  ctt ttg agc aac aaa gag ttg att ctg gat aaa gtc tat act cac ccc t Leu Leu Ser Asn Lys Glu Leu Ile Leu Asp Lys Val Tyr Thr His Pro	tcc cag cag tcc ttg aag ggg cac ctg agg aac aat ttc cag aag cag	258												
45 50 55  ctt ttg agc aac aaa gag ttg att ctg gat aaa gtc tat act cac ccc t  Leu Leu Ser Asn Lys Glu Leu Ile Leu Asp Lys Val Tyr Thr His Pro	Ser Gln Gln Ser Leu Lys Gly His Leu Arg Asn Asn Phe Gln Lys Gln													
Leu Leu Ser Asn Lys Glu Leu Ile Leu Asp Lys Val Tyr Thr His Pro														
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<213> Homo sapiens

<220>

<221> CDS

<222> 85..306

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Asn Thr Lys Val Cys Ser Phe Ile Leu Glu Ala Ser Glu Thr Thr Asn	
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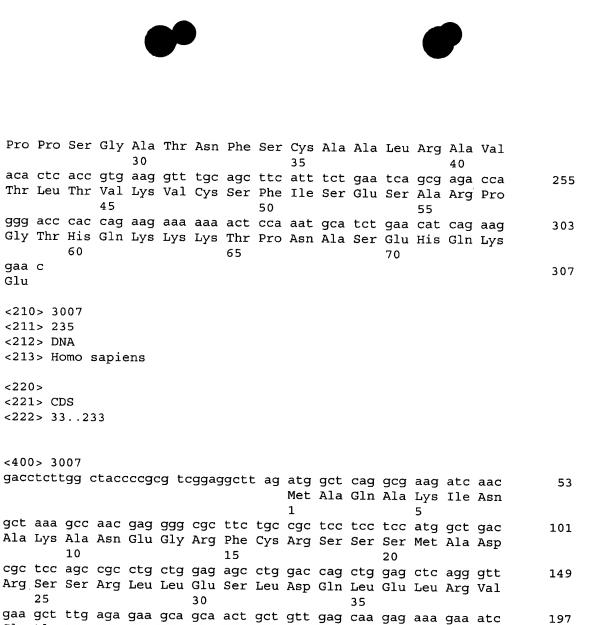
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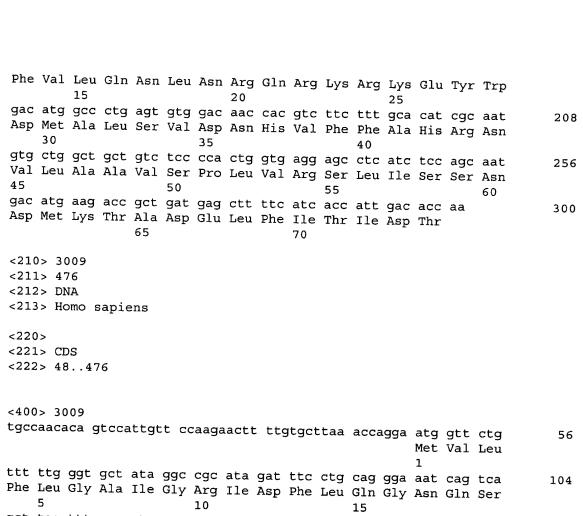
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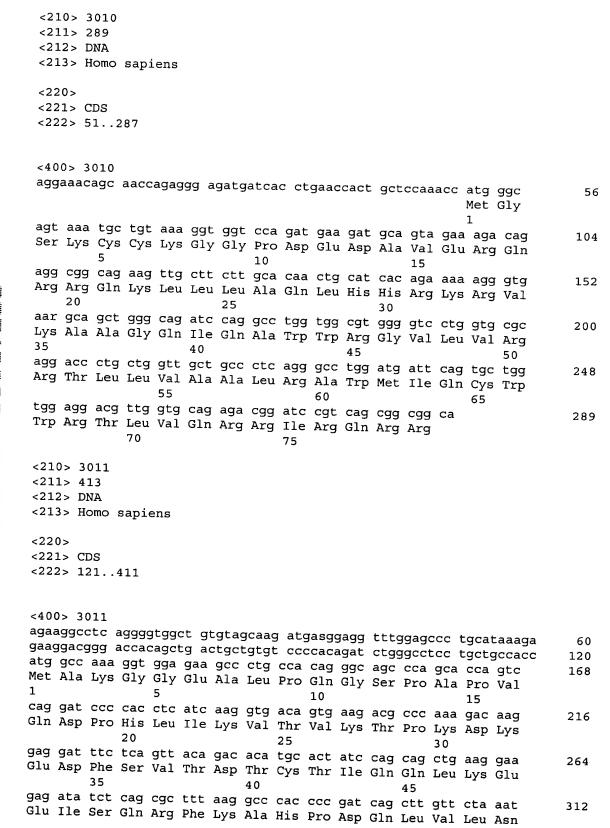
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Pne	ьeu 5	GIĀ	Ala	lle	GIY	Arg 10	Ile	Asp	Phe	ctg Leu	Gln 15	Gly	Asn	Gln	Ser	1	104
A1a 20	Trp	Phe	Thr	Val	Val 25	Ala	Ser	Asn	Ile	ctc Leu 30	Pro	Val	His	Ile	Thr	1	152
ser	ьeu	Asp	Arg	Ala 40	Asp	Ala	Leu	Tyr	Gln 45	aag Lys	His	Ala	Gly	His 50	Thr	2	00
Leu	ьeu	GIn	11e 55	Pro	Met	Gly	Gly	Lys 60	Glu	cga Arg	Met	Ala	Gly 65	Phe	Pro	2	48
Pro	ьeu	70	Ala	Glu	Asp	Ile	Met 75	Leu	Lys	gaa Glu	Gly	Leu 80	Gly	Ala	Ser	2	96
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100	Pro	Asn	Pne	Xaa	105	Arg	Leu	His	Leu	cga Arg 110	Gly	Tyr	Thr	Pro	Glu 115	3	92
GIY	Thr	vaı	Leu	Thr 120	Val	Arg	Pro	Pro	Leu 125	ttg Leu	Pro	tat Tyr	att Ile	gtw Val 130	202	4	40
tca Ser	aag Lys	gac Asp	agc Ser 135	gca Ala	tca Ser	aga Arg	aaa Lys	gtg Val 140	tgg Trp	cct Pro	ata Ile					4	76





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gcc cta tct tca c	gaa ctg cca a	gc aca tca cct	tca tca gtt gct	gcc 219
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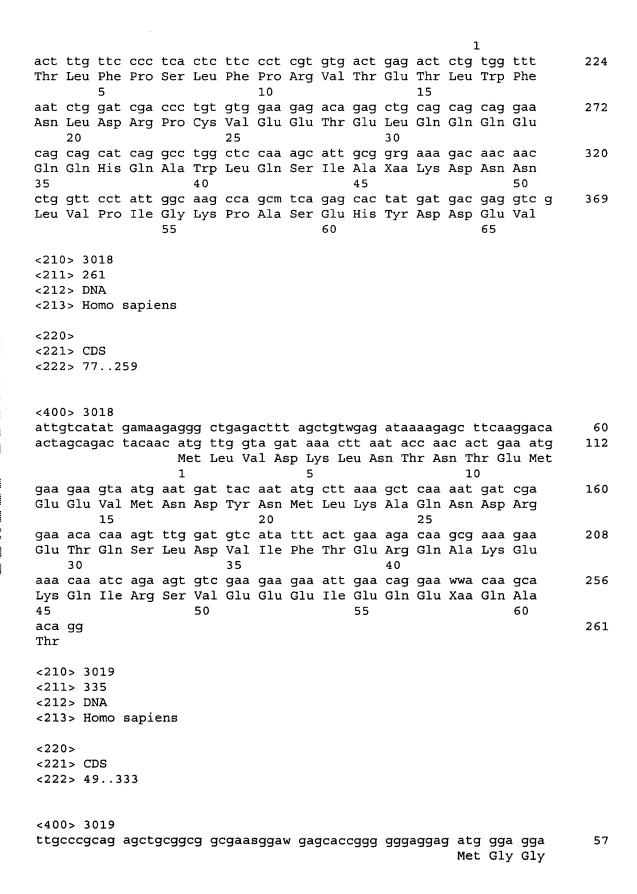


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gct Ala	gga Gly	ctc Leu 25	gaa	ctc Leu	ctg Leu	acc Thr	tca Ser 30	ggt	gat Asp	cca Pro	css Xaa	acv Thr 35	dtg Xaa	gcc Ala	tcc Ser	151
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tgt Cys	tgg Trp	gcc Ala 10	aga Arg	ggc Gly	tss Xaa	aag Lys	cgg Arg 15	gaa Glu	1 rca Xaa	gcc Ala	ttc Phe	agc Ser 20	5 cga Arg	ggg ggg	art Xaa	163
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gtg Val	acc Thr	agt Ser	gtt Val	cgt Arg 40	tcc Ser	cgc Arg	acc Thr	agg Arg	agc Ser 45	agt Ser	kct Xaa	gga Gly	aca Thr	ggc Gly 50	ctc	201
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Lys	atc Ile	Pro 70	Glu	Leu	Pro	Val	Gln 75	Ala	Ser	Ile	Leu	Phe 80	gag Glu	thg Xaa	cag Gln	297
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aac Asn	aag Lys	aaa Lys	gac Asp	gca Ala 15	ctt Leu	tgg Trp	ctt Leu	ata Ile	att Ile 20	ctt Leu	tca Ser	ata Ile	cag Gln	ata Ile 25	tat	100
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aaa Lys	gaa Glu	aat Asn 45	gat Asp	aca Thr	gca Ala	gag Glu	cta Leu 50	ggt Gly	gga Gly	aaa Lys	gcc Ala	tgg Trp 55	gtt Val	tgg Trp	tgt Cys	196
atg Met	gtt Val 60	ttt Phe	gag Glu	ata Ile	tta Leu	atg Met 65	ccc Pro	aga Arg	caa Gln	aaa Lys	gct Ala 70	aat Asn	acc Thr	ag		240
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gaa ccc act cct cac ctc agt gaa gca acg cag cgg gca ccc tgt gga Glu Pro Thr Pro His Leu Ser Glu Ala Thr Gln Arg Ala Pro Cys Gly 35 40 45	264
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Asp Arg Glu Gly Asp Ala Gly Pro Lys Thr Ser Thr Ala Val Glu Lys  30  35	150
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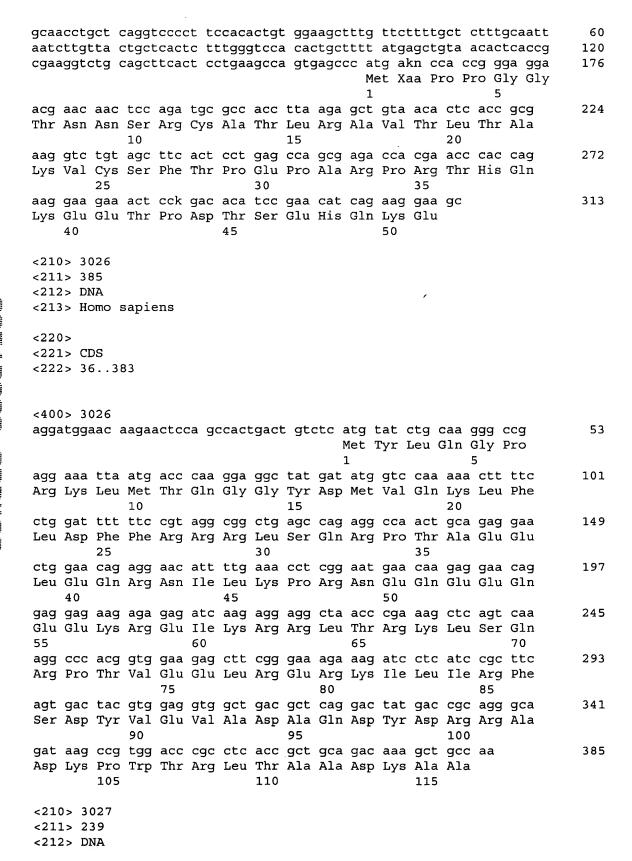
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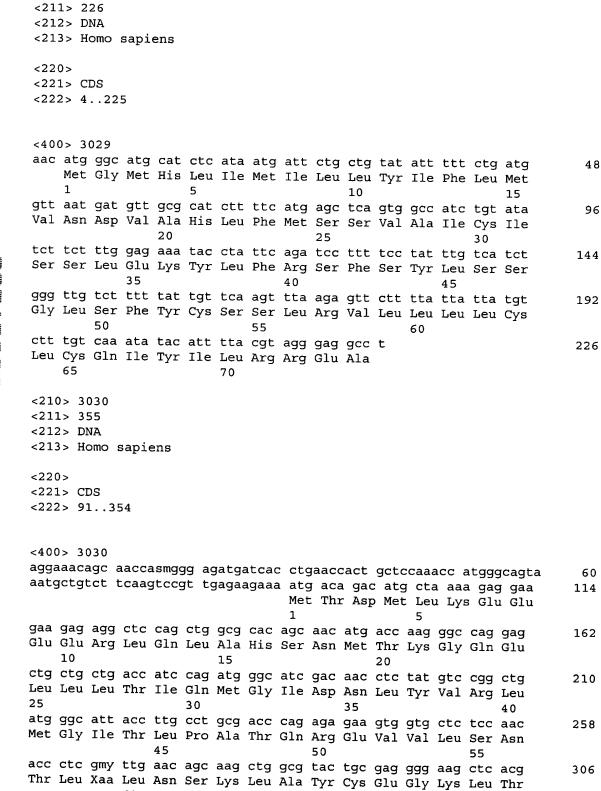


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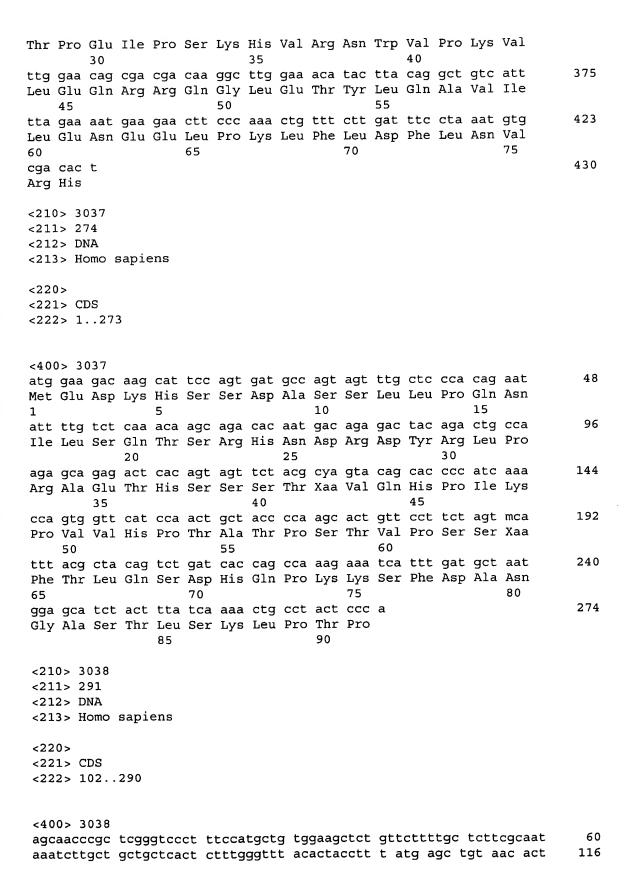
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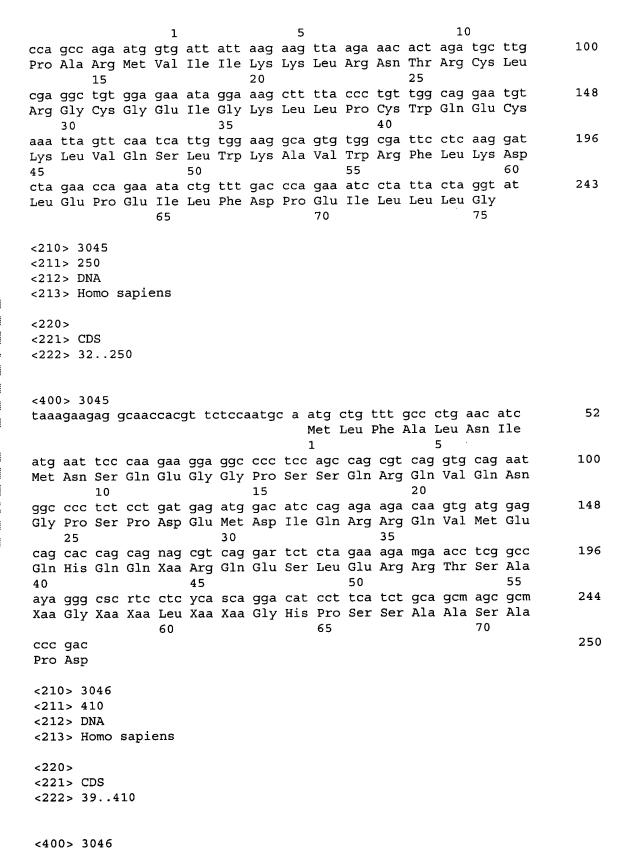


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Gln Gly Xaa Gly Tyr Val Leu Xaa Ser Ser His Arg Ser Ala Ala Val	





30 35 40 tec etg aac eet tee eac ega aga tea gaa get gea eat eee aee aet	315
Ser Leu Asn Pro Ser His Arg Arg Ser Glu Ala Ala His Pro Thr Thr 45 50 55 60	
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ggc cct ctc ctg gct ggc ttt cca ggg cat tcc ttc cac tct atc cag Gly Pro Leu Leu Ala Gly Phe Pro Gly His Ser Phe His Ser Ile Gln 30 35 40	386
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ggg atg tgg ctg ccg gac atg cgg agg cgc wms gag agc ggc aca cct Gly Met Trp Leu Pro Asp Met Arg Arg Arg Xaa Glu Ser Gly Thr Pro 15 20 25	339
gga gag ggc gtg gaa gct cca aca ccc cac ctc cac acc gcg tgc tat Gly Glu Gly Val Glu Ala Pro Thr Pro His Leu His Thr Ala Cys Tyr 30 35 40	387
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aag gtc tgt agc ttc act cct gag cca gcg aga cca cga acc cac cca Lys Val Cys Ser Phe Thr Pro Glu Pro Ala Arg Pro Arg Thr His Pro 25 30 35	272
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cga gat Arg Asp	ctt Leu	gat Asp	gtg Val 60	gtg Val	gtg Val	gtt Val	tca Ser	gtg Val 65	gct Ala	ggt Gly	gcc Ala	ttc Phe	cga Arg 70	aag Lys	304
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					- 5					1	n				
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Ala Arg	tca Ser ttg	Tyr caa	Gly	Asn 20 agc	tcc Ser	Val gms	Phe att	Asn tta	Phe 25 cat	ttg Leu tcc	agg Arg cat	Asn cag	Cys	Gln 30 tgt	147
Ala Arg 15 act gtt Thr Val ctg agg Leu Arg	tca Ser ttg Leu gtt	Tyr caa Gln cca Pro 50	agc Ser 35 att Ile	Asn 20 agc Ser tct Ser	tcc Ser tgc Cys cca Pro	Val gms Xaa cat His	Phe att Ile tct Ser 55	tta Leu 40 tgc Cys	Phe 25 cat His caa Gln	ttg Leu tcc Ser cat His	agg Arg cat His ttg Leu	cag Gln tct Ser 60	Cys caa Gln 45 ttk Xaa	Gln 30 tgt Cys aag Lys	147 195
Ala Arg 15 act gtt Thr Val	tca Ser ttg Leu gtt Val	Tyr caa Gln cca Pro 50 atc	Gly agc Ser 35 att Ile cat	Asn 20 agc ser tct Ser	tcc Ser tgc Cys cca Pro	yal gms Xaa cat His	Phe att Ile tct Ser 55 tgt	Asn tta Leu 40 tgc Cys gda	Phe 25 cat His caa Gln gtg	ttg Leu tcc Ser cat His	agg Arg cat His ttg Leu	cag Gln tct Ser 60 cat	Cys caa Gln 45 ttk Xaa	Gln 30 tgt Cys aag Lys ggt	147 195 243
Ala Arg 15 act gtt Thr Val ctg agg Leu Arg att cta	tca Ser ttg Leu Val Val Ala 65	Tyr caa Gln cca pro 50 atc Ile	Gly agc Ser 35 att Ile cat His	Asn 20 agc Ser tct Ser cct	tcc Ser tgc Cys cca Pro	yal gms Xaa cat His gtc Val	Phe att Ile tct Ser 55 tgt	Asn tta Leu 40 tgc Cys gda	Phe 25 cat His caa Gln gtg	ttg Leu tcc Ser cat His	agg Arg cat His ttg Leu tct Ser	cag Gln tct Ser 60 cat	Cys caa Gln 45 ttk Xaa	Gln 30 tgt Cys aag Lys ggt	147 195
Ala Arg 15 act gtt Thr Val ctg agg Leu Arg att cta Ile Leu ttt gat Phe Asp	tca Ser ttg Leu gtt Val 65 ttt Phe	Tyr caa Gln cca Pro 50 atc Ile ttt Phe	Gly agc Ser 35 att Ile cat His	Asn 20 agc Ser tct Ser cct	tcc Ser tgc Cys cca Pro	yal gms Xaa cat His gtc Val	Phe att Ile tct Ser 55 tgt	Asn tta Leu 40 tgc Cys gda	Phe 25 cat His caa Gln gtg	ttg Leu tcc Ser cat His	agg Arg cat His ttg Leu tct Ser	cag Gln tct Ser 60 cat	Cys caa Gln 45 ttk Xaa	Gln 30 tgt Cys aag Lys ggt	147 195 243

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ctg gag tgc agg gtt gtg atc aat agc tca ctg cag cct car sct cct Leu Glu Cys Arg Val Val Ile Asn Ser Ser Leu Gln Pro Gln Xaa Pro 40 45 50	201
ggc ctc aag cga tcc tcc agc ctt agc ctc cga aag caa tgg aat twc Gly Leu Lys Arg Ser Ser Ser Leu Ser Leu Arg Lys Gln Trp Asn Xaa 55 60 65	249
agg tgt gag cca cca tgc cca gct ctg gaa vtc dba aaa atd nat gag Arg Cys Glu Pro Pro Cys Pro Ala Leu Glu Xaa Xaa Lys Xaa Xaa Glu 70 75 80	297
aaa agg caa gtt aaa agg tca gag gta tac att gag aat ggc ctg aat Lys Arg Gln Val Lys Arg Ser Glu Val Tyr Ile Glu Asn Gly Leu Asn 85 90 95	345
nga myg aag aac cac aaa aga agt gaa aat agc caa ttc ctg cct tta Xaa Xaa Lys Asn His Lys Arg Ser Glu Asn Ser Gln Phe Leu Pro Leu 100 105 110 115	393
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tgg cac tgw agc agg aaa tgg ggc gag act ctc ctc caa ttg tca act Trp His Xaa Ser Arg Lys Trp Gly Glu Thr Leu Leu Gln Leu Ser Thr 20 25 30 35	154
cma wgt act cca cct wca gag att ttt gtt mca cat ctt cat ttc aag Xaa Xaa Thr Pro Pro Xaa Glu Ile Phe Val Xaa His Leu His Phe Lys 40 45 50	202
ata rtg gct aca atg agt waa aat ctt gta gct ttg at Ile Xaa Ala Thr Met Ser Xaa Asn Leu Val Ala Leu	240



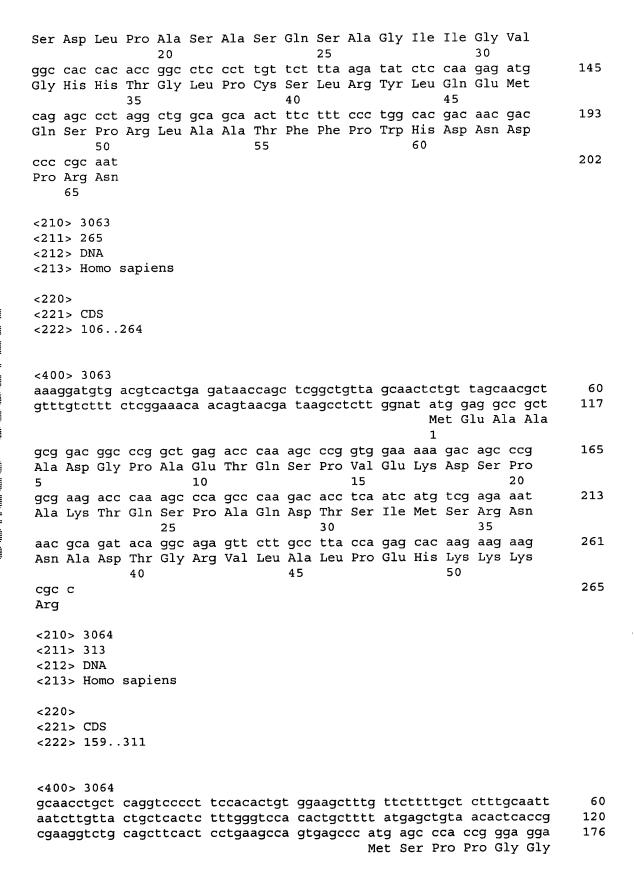


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caa ggc tat tac cct ggg cag ctg gca aga ctc cat ttt gat cat agt Gln Gly Tyr Tyr Pro Gly Gln Leu Ala Arg Leu His Phe Asp His Ser 30 35 40 45	206
gca aag aga gct ccc aga ccg ctc ata gac ttg aca att cca ccc aag Ala Lys Arg Ala Pro Arg Pro Leu Ile Asp Leu Thr Ile Pro Pro Lys 50 55 60	254
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ttt cag cag ggt ggt gta ttc tac agt att atg aag aaa acc atg ggt Phe Gln Gln Gly Gly Val Phe Tyr Ser Ile Met Lys Lys Thr Met Gly 30 35 40	148
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gca gga cat ttc ccc att ggt cct gat gtt gaa gat tta gtt aaa gag Ala Gly His Phe Pro Ile Gly Pro Asp Val Glu Asp Leu Val Lys Glu 75 80 85	292
gct gta agt cag gtt cga gca gag gct act aca aga agt agg gaa tca Ala Val Ser Gln Val Arg Ala Glu Ala Thr Thr Arg Ser Arg Glu Ser 90 95 100 105	340
agt ccc tca cat ggg cta tta aaa cta ggt agt ggt gga gta gtg aaa Ser Pro Ser His Gly Leu Leu Lys Leu Gly Ser Gly Gly Val Val Lys 110 115 120	388
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atg aaa cca gct tac cct tcc cct gtg tgc tgg ccc cag ttt tct aac	168
Met Lys Pro Ala Tyr Pro Ser Pro Val Cys Trp Pro Gln Phe Ser Asn 1 5 10 15	
cag gtg ttg aat gaa ctg gat gga ctc tgc cag atc cct ccg tgc aag Gln Val Leu Asn Glu Leu Asp Gly Leu Cys Gln Ile Pro Pro Cys Lys 20 25 30	216
gct gga atc agt cca ttg ttc aas tgt gcc ctt tgg ggm tgt ggt tca Ala Gly Ile Ser Pro Leu Phe Xaa Cys Ala Leu Trp Gly Cys Gly Ser	264
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1 5 10 15 tca gat ctg ccc gcc tcg gcc tcc caa agt gct ggg att ata ggt gtg	97



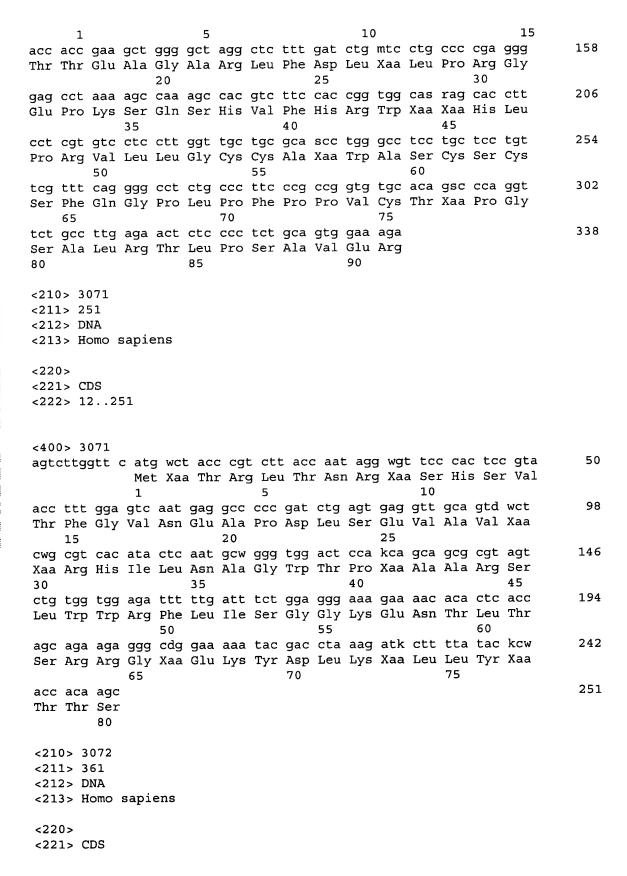
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Thr Asn Asn Ser Arg Cys Ala Thr Leu Arg Ala Val Thr Leu T 10 15 20	
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gct aaa aga gca cac cca ggg gac ccc acc atg aat gtg tca g Ala Lys Arg Ala His Pro Gly Asp Pro Thr Met Asn Val Ser V 15 20 25	
ggt gca caa gga cag arg cca tgg cca gaa aga gtc ccg ctg g Gly Ala Gln Gly Gln Xaa Pro Trp Pro Glu Arg Val Pro Leu G 35 40	
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Phe Tyr Phe Phe Glu Met Asn Ser Cys Cys Phe Ala Gln Ala G	
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•	

30 35 40	
caa ttc tct tgc ctc agc ctc ctg agt agc tgg gac tac cgg cac ccg Gln Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg His Pro 45 50 55	196
cca cca cc Pro Pro 60	204
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cat tat cgc tgt gct ctg atc gcc ctt gaa cat ggt gca gat gtc aac His Tyr Arg Cys Ala Leu Ile Ala Leu Glu His Gly Ala Asp Val Asn 35 40 45	143
aat tot acc tat gaa gga aag coa ata tto ott aga got tgt gaa gat Asn Ser Thr Tyr Glu Gly Lys Pro Ile Phe Leu Arg Ala Cys Glu Asp 50 55 60	191
gca cat gat gtt aaa gat gtg tgc ctg aca ttt ttg gaa aaa gga gcc Ala His Asp Val Lys Asp Val Cys Leu Thr Phe Leu Glu Lys Gly Ala 65 70 75	239
aat cct aat gca atc aac tca tcc aca ggc cgc aca gct tta atg gaa Asn Pro Asn Ala Ile Asn Ser Ser Thr Gly Arg Thr Ala Leu Met Glu 80 85 90 95	287
gcg tca aga gaa bgg gta gtg gaa ata gtt cga ggc ata ttg gaa aga Ala Ser Arg Glu Xaa Val Val Glu Ile Val Arg Gly Ile Leu Glu Arg 100 105 110	335
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tta cag ntg tgg gcc acc gtg ccc ggc cga ttc tta ttt ttc aaa aar Leu Gln Xaa Trp Ala Thr Val Pro Gly Arg Phe Leu Phe Phe Lys Lys 30 35 40	145
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agg gtt ggg ctc atc agc tgg gcn gga acc tac cks acc ttt gag gca Arg Val Gly Leu Ile Ser Trp Ala Gly Thr Tyr Xaa Thr Phe Glu Ala 20 25 30	214
tgc aag aat aca gtc act gca act gcg aag agt ttg ggc agg aga cag Cys Lys Asn Thr Val Thr Ala Thr Ala Lys Ser Leu Gly Arg Arg Gln 35 40 45	262
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	= -	aaa gac ttt gtg gac	aaa att 267
		S Lys Asp Phe Val Asp	
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		tta att gag ctt gtt	gat caa 315
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		Ser Ser Glu Ala Gly Xa	
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		r Gln Arg Lys Glu Ala	
15	20	25	
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Ser Ser Lys Xaa	Gln Lvs Cvs Gln Gl	u Glu Ser Glu Gln Thr	Gly Phe
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Trp His Met Met Xaa Val Xaa Val Thr Met Glu Lys Glu Gly Gly Xaa 5 10 15	
aat acc ttt aaa aas maa mmt aag gmr aat tca aca agc cag cgc gtc	155
Asn Thr Phe Lys Xaa Xaa Xaa Lys Xaa Asn Ser Thr Ser Gln Arg Val 20 25 30	
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35 40 45	
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ind that if it then them their	ttg ttc ttt cac ttg aac ata tt Leu Phe Phe His Leu Asn Ile 65	397
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the bet and the trought goa aaa too caa acc agg	158
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Phe Asn Leu Pro Pro Phe 11e Sel Ash val Gla 2/2 55 60	
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ctg gaa agc aaa ctg ttg tat ata gtt gcg gta aca atc atg aag aga	
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	25 c agt aaa agc aaa l Ser Lys Ser Lys	gac ggg act gga Asp Gly Thr Gly	agc gat gac aaa	201
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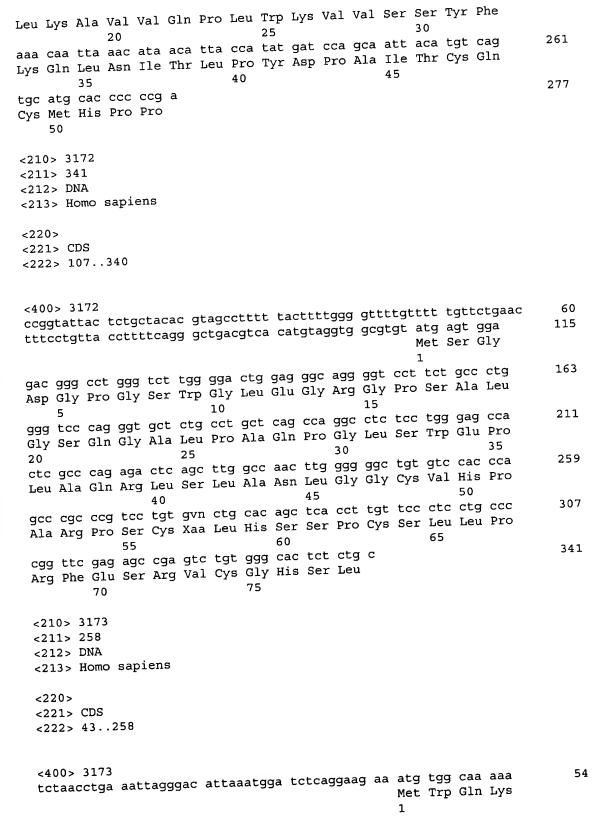
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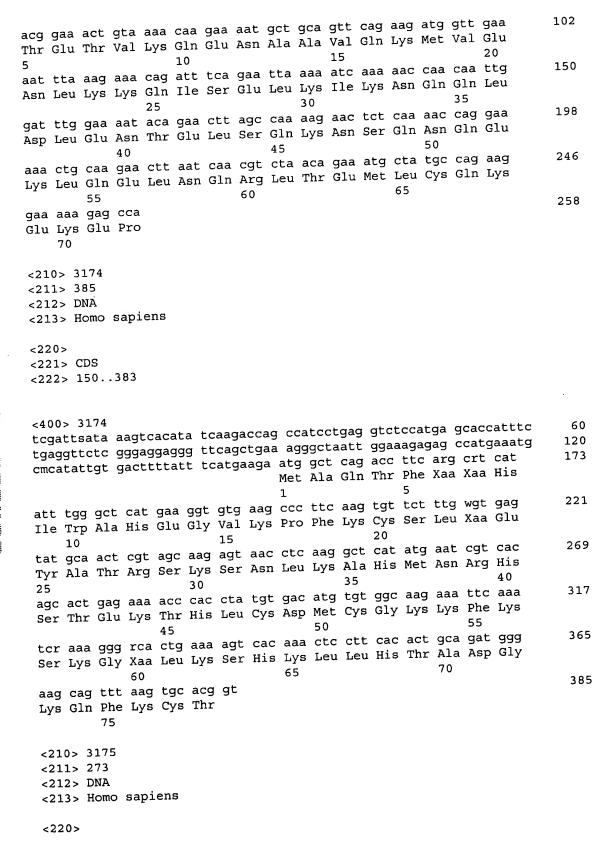
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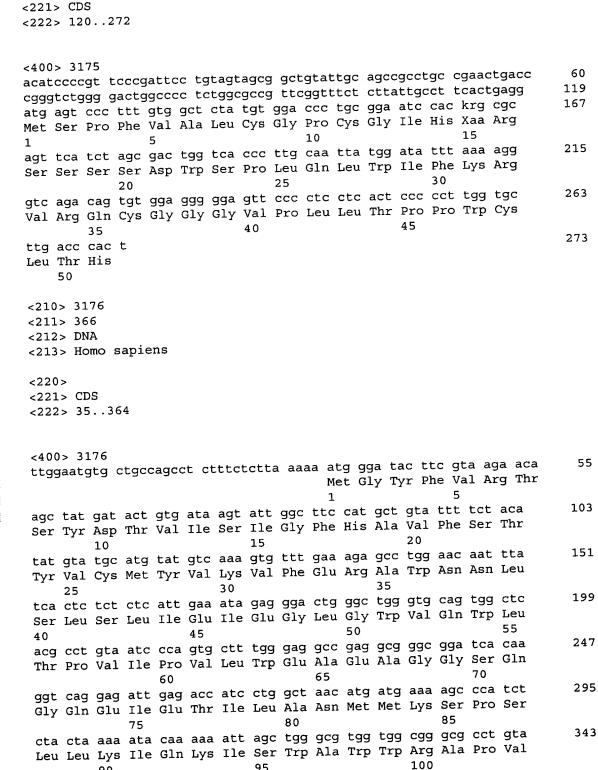
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Gln	65 aat Asn	gta Val	mgc Xaa	acc Thr	agg Arg 85	cta	gmv Xaa	dat Xaa	tct Ser	aga Arg 90	gaa Glu	ggg Gly	tct Ser	tgc Cys	cac His 95	408
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and and act tat att att till acc age are	200
The Leu Asn Pro Arg His Leu Ala Cys var the the the the	
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atg aac aca atc cag ada ata aca age got so lys Asp Ala Glu Ile Met Asn Thr Ile Gln Lys Ile Thr Ser Val Cys Lys Asp Ala Glu Ile	
E 10 =-	
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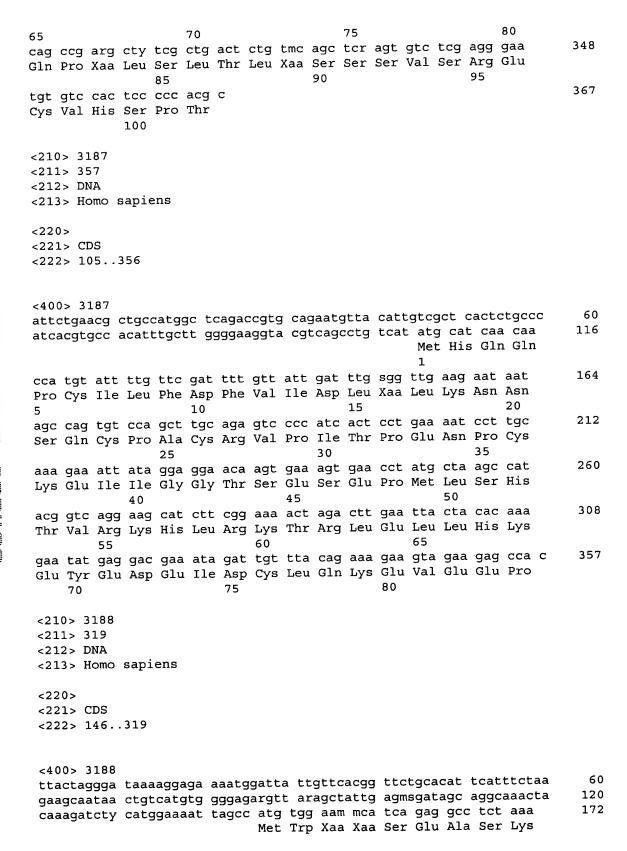
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ctgct	gata	a aga	a atg Met	caa	gta Val	aaσ	ggg Gly	CCa	LCa	ggu	aga	uge		- 5 -	200
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Cys G	lu S	er G	lu Gl	y Gl	n Phe	: Lys 20	s Sei	r Cy:	з те	л пу	25	9 111	J 111		265
tct c			tg co	t to	c agt	tgg	g aag	g gg: s Gl [.]	a aa y As:	c to n Se	a gg r Gl	t tc y Se	t tg r Cy	c cta s Leu	265
3	. n				35					40)				299
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Phe	Phe	Leu	Thr I	yr V	al Pı	:О Le	eu Lo	eu G	тА г	eu 1	.ys A 2	0			
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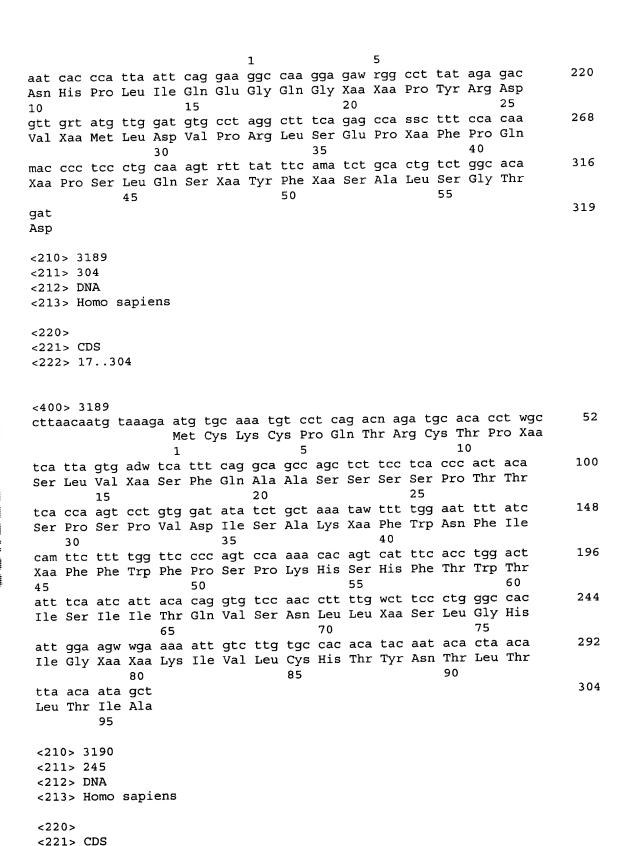
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	Thr 5	Phe	Ala	Glu	Asp	Glu	Glu	Leu	Glr	Asn	Met	Asp	Lys	Glu	Āsp	Ala		
	_	att	tac	+++	gaa	10	636	3 to to			15					20		
	Leu	Ile	Cys	Phe	Glu	Glu	His	Tle	. cgg	gct	tta	gaa	aag	gag	gaa	gaa Glu	153	3
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					1				5					10)			
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	Phe 1	PIO	ьеи 15	Pro	Thr	Arg	Ser	Gly	Phe	Leu	Lys	Ile	Met	Ser	${\tt Trp}$	Ile		
	att d	act	-	att	tca	aat	+++	20 ct a	ata	+			25					
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	ttt t	(aa	Ser	Ser	Xaa	Ser	Ser	cat Hic	tta	tct	cca	aca	ca				294	
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342

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95

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Ser Gln Arg Gly Thr Ala Ser Gly Gly Glu His Glu Gly Ser Leu Arg

atg aag aca gag tta ctg gtg cag atg gat ggg ctg gca cgc tca gaa

Met Lys Thr Glu Leu Leu Val Gln Met Asp Gly Leu Ala Arg Ser Glu

60





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20					25					30					35	
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Leu																
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FIIC .	БСИ	116	15	FIO	цуъ	Giu	Arg	цув 20	Giu	ASII	1111	1111	ьуs 25	1111	Arg	
aaa	aga	aga		aar	att	act	gat		ctt	gca	aaa	tca		cca	aaa	148
Lys	Arq	Arq	Lys	Lys	Ile	Thr	Asp	Val	Leu	Ala	Lvs	Ser	Glu	Pro	Lvs	110
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Pro (Gly	Leu	Pro	Glu	Asp	Leu	${\tt Gln}$	Lys	Leu	Met	Lys	Asp	Tyr	Tyr	Ser	
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agc a																244
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tgt																292
Cys :	Pne	Leu	ьуs		Asn	Asp	Leu	Thr		Ser	Leu	Ser	Ser		Leu	
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aaa q																340
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